

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
12396	42764	A	12471	3771	4703	SFQFFCSVFSPSLWFYLLLVFDD GDVQMRFRGCGPFCLLVFLITD RTLSCRSVGIPCRVRCQCA\LLG GASQLGCSGVKGSRDPLEEAV CPFS\DL\QLRAGGNTALFKAVR QGHLSLQRLLSF\VCCLCPAPRG GAYRGGQASLSCGGLHPV*AS\ RLLCLPKQAWAMAGAPPPASL L\PC\NLISDCCASNQRDSVGVGP S/ERPGVGYSLVVRRFLSRSEKR NIRGG\VTRFSRCRPSPLSLTRK GNSLTPCASQSEGNAIGPAFGF AHGARTHWA LRPTVWHS LCE MNPVPQMEMQKSPVFCVAHA GGCRPEL
12397	42765	A	12472	1	1038	
12398	42766	A	12473	27	428	LADRSAIPGFAIFAVTFLALVG AVLYLYPWTLKPC*SHY*GIN LVVAV*VKTT*GKNCKMVM*L IL*RVTLPS*RFGLRLEKAF*M GHLIK*LGKNNMKMPSCNWS LF*GTS*KNEKEGTSVNIFSLTP
12399	42767	A	12474	107	362	NKPCEEFYFLAALIYLLYHGRK KADTKIPP*ISRFFLILYPSHELTI FIVIHIMCDLGCTWAICFLTSE EVQKKLYEEINQVFG
12400	42768	A	12475	193	637	TSSEVVKKQIAQVHNFAVIMQL ARENIILSS/EDLLVIKVPY*GV NENMLTEVPSFSFFYDVP*NRL QLHEGIFILFFPSHVFIK*PI*KAF SNLRPN CAMILLEANDFLIIFKC TTHYHLCNRLHSKTKHMLAEG HVLGLWVGEPFI
12401	42769	A	12476	1	1930	
12402	42770	A	12477	1	362	
12403	42771	A	12478	58	160	GVSLQSTSEEGRGMRQE*TERE IKVTCRSHYRLA
12404	42772	A	12479	3	410	
12405	42773	A	12480	1	807	
12406	42774	A	12481	154	375	
12407	42775	A	12482	2	512	
12408	42776	C	12483	29	455	
12409	42777	A	12484	209	433	
12410	42778	A	12485	1	1546	
12411	42779	A	12486	3	931	
12412	42780	A	12487	1	363	
12413	42781	A	12488	1	351	
12414	42782	B	12489	82	263	
12415	42783	A	12490	1	1878	
12416	42784	A	12491	24	242	
12417	42785	A	12492	1	3558	

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12418	42786	A	12493	2	478	HNSLKSDENKENSFSADHVTTA VEKSKESQVTADDLEEEKAKA ELIMDDDRTVDPLLSKSQSILIS TSATASSKKTIEDRNIKNKKSTN NRASSASARLMTSEFLKKSSSK RRTPSTTTSSHVLTGLKVLDQK PFTETEA*EPDRADNIRGSCLFR
12419	42787	A	12494	1	1047	
12420	42788	A	12495	1	1055	
12421	42789	A	12496	212	611	
12422	42790	A	12497	2	195	YVMGRNDGGYLMIDSKTAEIK FVKNMNRDSTFVINKTITAEVL AID\RYSGKNCLLISWSYICG
12423	42791	A	12498	1	429	
12424	42792	A	12499	1	503	
12425	42793	A	12500	3	825	GTTKWQTVRRQKREWIKFAAA CREGEDNSKRNPAAK*SDLQNS LLPALY*KHVRSDCESNQKITY RISGVGIDRPPYGVFTINPRTGEI NITSVVDREITPLFLIYCRLNS RGEDLERPLELRVKVMDINDN APVFSQSVYTASIEENS DAN TL VVKLCATDADEENHLNSKIA Y KIVSQEPGAPMFILNRYTGEV CTMSSFLDREQHSMYNLVVRG SDRDGAADGLSSECDRIKVLD VNDNFPT/FRENFQNSSRFSNS LLSSFDQWRKL
12426	42794	A	12501	986	4030	KQRLTWTFSPGKSETMMGLFP RTTGALAI FVVVILVHGELRIET KGQYDEEEMTMQAKRRQKR EWWKFAKPCREGEDNSKRNPAA KITSDYQATQKITYRISGVGIDQ PPFGIFVVDKNTGDINITAIVDR EETPSFLITCRALNAQGLDVEKP LILTVKILDINDNPPVFSQQIFM GEIEENSASNSLVMLNATDAD EPNHLNSKIAFKIVSQEPAGTPM FLLSRNTGEVRTLTNSLDREQA SSYRLVVSGA
12427	42795	B	12502	1	3572	
12428	42796	A	12503	1	594	
12429	42797	A	12504	1	612	
12430	42798	B	12505	200	532	
12431	42799	A	12506	2	735	
12432	42800	A	12507	5	400	

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12433	42801	A	12508	2	1260	GQAASPASPASPAMAWAA LLGLLVALLLLLLLSRRRTRRP GEPPLDLGSIPWLGYALDFGKD AASFLTRMKEKHGDIFILVGG RYVTVLLDPHSYDAVVWEPT RLDFHAYAIFLMERIFDVQLPH YSPSDEKARMKLTLLHRELQAL TEAMYTNLHAVLLGDTEAGS GWHMGLLDF/CLQLPAQSRLP DSL RN*GAATHP*KPGPGPRPLS *CLPHLSPARPAAPQTGPWLPV SGGQGPVHVQCQKSPVEAAIPSQ AGQAGPPEQMAGELPAAPGGD GCVRGDAGTGPAAA VGH TGE YGSRC LLAPALPSQES*SPGCCP RRAREYPLASGAAC LADDHSPT EGSRQHTC/DLIAC*VRASGLQL PPSSPARL\GGPGHAHGRRERIQ PATW*PPPPLPLEPPERPRNLH RPRGI
12434	42802	A	12509	3	466	
12435	42803	A	12510	1	1134	
12436	42804	A	12511	2	1211	
12437	42805	A	12512	2	405	HEMLLASEIKHLPRRLIGQERE TQTSELKIKRRGNEEAPS/PPPSS AYERGTRKPDDRYDTPTSKKK VRIKDRNKLSTEERRKLFEQEV AQREAQKQQQQMQNLGMTSP LPYDSLGYNAPHHPFAGYPPGY PMQA
12438	42806	A	12513	191	898	
12439	42807	A	12514	1	270	
12440	42808	A	12515	2	1328	
12441	42809	A	12516	1	2868	
12442	42810	A	12517	1	1254	
12443	42811	A	12518	1	576	

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12444	42812	A	12519	1919	3044	HQGPSTPPSWAMSGPPTPLSRE DWHQGPSTPPSWAMSEPPT/SSI QGLASGAVHTILLGDVRATYTS IQGVTSQVSQVSRAAQMAVPSS RILQLSKPKAPATLLEWDPVP KPKPHVSDHNRLHLAKVPRK EGSGKKVGAFPEIKGPEAFRDK ARAMESQSNDMPFDELLALYG YEASDPISDRESEGGDVPNLP DMTLDKEQIAKDLLSGEEEEET QSSADDLTSPVTSHEASDLFPN RSGCLLAGEAESSRGLLPRAQP VPRGAGLADNSRGALLRAHGT VRVGTTATVKPADAPPESPRDR RSRNDSHRPTGPSESERQPQSN QPTLLLRGHGTIRVRTTATVKP ADAPAESPRDRSRNDSHGQSS
12445	42813	A	12520	413	1412	
12446	42814	A	12521	293	412	NHLSVAGNGSSPCGL*AGALGL LLWLLASSGHRVLSGMI
12447	42815	A	12522	2	181	
12448	42816	A	12523	1	277	
12449	42817	A	12524	1	739	
12450	42818	A	12525	1	326	
12451	42819	A	12526	3	566	
12452	42820	A	12527	1	465	
12453	42821	A	12528	1	1167	
12454	42822	A	12529	260	395	EVATATPTLSNHYPDQSAAIN/D QG*PLHQKQDHLQKAQMNISI F
12455	42823	A	12530	209	958	FRCVLISFWSHKLHLWYHEGRI VPSDRIVPPHGIVSSHGVALPQR ILMRQFTLLEGLNKDGRFLIQLS GTAPWSSYFNSVAKFGVHIRIH SFFLSHNGHKAVAPLDLLSNVG GSCLCGDASSF\TPSRITMTSK SWLARSVAEMSYR/WTALVNH VADDQRGHQKNVIALDWVINR NVQLVNRNHLPRCSCFLDHL AHRGTNDHAFQVTHSEHEAQ LAISDGNHSMMAENQSFCSVS LSCFHENAA
12456	42824	A	12531	1	1965	
12457	42825	C	12532	520	684	



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12458	42826	A	12533	701	1307	GRHLTTNHTA AVVVFPFRPLCS SFFRYSGFRGVAGATASGRGQG PAG*DNCQRAWRGAFYKFQAT LSAGAGTRAEEGSDGDGEAAE PGAGTAREPARLRGYRSRRFVL DGRRCCLCYFKNPHDPLPLGHL DIAEACFSYQRADEAAEQPAHF QVRSAGAATVLEVGTRALRGV HLLRAHRGIWAQAWSPVSFLQ AVLPAWLL
12459	42827	A	12534	1	1356	
12460	42828	B	12535	1	1449	
12461	42829	A	12536	3	2449	
12462	42830	A	12537	1	3327	
12463	42831	A	12538	1	1359	
12464	42832	A	12539	1	672	
12465	42833	A	12540	1	1281	
12466	42834	A	12541	1	399	
12467	42835	A	12542	1	399	
12468	42836	A	12543	171	426	PVSCATGEEEDNVLFPGDDLP R**PGKLWCEFHASSISQALGQ HPRRSVLDTDQSHVPLVRRKTT CFSQRAMISPDDDPSEAGALS RNNLLAPYSALTFMENGNCLL QLFQLGKLLVQASHLHGQLLV FVQKIISM
12469	42837	A	12544	1	988	
12470	42838	A	12545	3	129	LFHPCQDSQQHH*CVCCRLTGH GAA*VHGPCQAVQTYRASH
12471	42839	C	12546	532	1101	
12472	42840	A	12547	197	355	
12473	42841	A	12548	1	1275	
12474	42842	A	12549	3	131	

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12475	42843	A	12550	1746	3504	ESDPSNSTTSMRDRTLL/MSSIVP RLPSACRILPTGFTIPE*SCVHRT ASLIPPLPPGSRKYSPPLPLNSLI FLKN/SAYTAVPALQTDWATSP ISLHLRTSFNSPHLYPPEELIYFL DRSSKTSPDISHQQAALLRTY LKNLSPYINSTPPIFGPLTTQTTI PVAAPLCISWQRPTGIPLGNLSP SRCSFTLHLRSPTTNINETIGAF QLHITDKPSINTDKLKNISSNYC LGRHLPCLSLHPWLSSPCSSDSP PRPSSCLLIPSPENNSERLLVDT RRFLIHENRTFPSTQLPHQSPL QPLTAAALAGSLGVWVQDTPF STPSHLFTLHLQFCLAQGLFLC GSSTYMCLPANWTGTCTLVFL TPKIQFANGTEELPVPLMTPTQ QKRVIPLPLMVGLGLSASTVA LGTGIAGISTSVMTFRSLSNDFS ASITDISQTL SVLQAQVDSLAA VVLQGQLRGLDLLTAEGGLCI FLNECCFYLNQSGLVYDNIKK LKDRAQKLANQASNYAESPWA LSNWMSWVLPVSPLIPIFLLLL FGPCIFRLVSQFIQNRIQAITNHS IRQMFLTSPQYHPLPQDLPSA
12476	42844	A	12551	2	394	
12477	42845	A	12552	1	882	
12478	42846	A	12553	45	409	
12479	42847	A	12554	1	1035	
12480	42848	A	12555	118	312	
12481	42849	A	12556	1	1083	
12482	42850	B	12557	1	1122	
12483	42851	A	12558	97	439	
12484	42852	A	12559	1	450	
12485	42853	A	12560	1	471	

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12486	42854	A	12561	2	1407	WGKNRAEKLET LKSRVPLLLQ RNAVPHQQWNKAGRRMTLTS* EKKASDD/PNYSKLQEEIQTG KEVKHFEKNLDECITRITNREK CLKELMELKAKARELREECRSL RSQCDQLEERVSVMEEIQTIRE YYKHL YENKLQNL EEMDKFLD TYTLRRLNQEEVESLNR PITGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLLKLFQSIEKEGI LPNSFYEASIIIPKQGRD TTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIPGMQG WFNICKSRNVIIHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGI DETYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEV LARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSK VSGY KINVQISQAFLYTNYRQSAKS
12487	42855	A	12562	1	846	
12488	42856	A	12563	1	1281	
12489	42857	B	12564	1	274	
12490	42858	B	12565	1	2265	
12491	42859	A	12566	1	2742	
12492	42860	A	12567	1	1272	

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12493	42861	A	12568	222	2130	RKKNNKKK*TKPPRNMGLREKT KMSDWCT*K*RGAWNQV/AK TLCRILSRRT/YPNLARQADIQIQ EIQRTPQRYSSRRATPKHIIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLTADLSAETLQARRE WGQIFNILKEKNFQPRISYPAKL SFISEGEIKPFTDKQMLRDFVTT RPALKELLKEVLNMERNNRKK LNRPTGSEIVAIINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSKEKEGIHPNSFDEASIIIP KAGRDTTTKDNFRPISLMNIDA KILNKILANQIQQHIKKLIHHDQ VGFIPGMQGWFNICQSINVIQHI NRTKDKNHVIISIDAEKAFDKIQ QRFMLKTLNKLIDRMYLKIIR AIYDKPTANIILNGQKLEAFPLK MGTRQGCPLSPLFNIVLEVLA RAIRQEKEIKHIQLGKKEVILSL FADDMIVYLENSIVSAQNLLKLI SNFSKVSGYKINVQKSHAFHT NNRQTESQIMSELPFTIASKRIK YLGQTLTKDVKDLFKENYKPLL NEIKEDTKKWKHPCSWVGRIN IVKMAILPKVIYRFNAIPIKLP TFFTELEKTTLKFIWNQKRAHT AKSILSQKNKAGGITLPDFQLY CKATVTKTAWY
12494	42862	A	12569	1	474	
12495	42863	A	12570	1	1197	
12496	42864	A	12571	1	1518	
12497	42865	A	12572	1	3189	
12498	42866	A	12573	1	2199	
12499	42867	A	12574	3	2820	ENKDDTYQNLWDAFKAVCRG KFIALNAHKKRQERSKIDTLTS QLKELEKQEQTTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITTDPTIQTITI REYYKHLIYANKLKNLEEMDKF LDITYTLPRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFR
12500	42868	B	12575	1	1593	

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12501	42869	A	12576	1	3549	MGDFNTPLSTLDRSRRQKVNK DTQELNSALHQVDLIDYRTLH HKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHNKMKAEIKMFF ETNKNKDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EVTKIRAELEKETQKTLQKINE SRSWFFERINKIDRMLARLIKK KREKNQIDTIKNDK
12502	42870	A	12577	1	2724	
12503	42871	A	12578	1	3567	
12504	42872	B	12579	709	2064	
12505	42873	A	12580	1	3370	
12506	42874	A	12581	1	2024	MGFYHVGQAGTELLTSNDPLT SASQSARITGKALQKPTEVPVP YEKMLQDQSALIVQGLPEGVA FKHPENYDLATLKWILENTAGI SFIINSATIEPPAAQPMSTHMG HSLCVLVVETHAKPVAVQSSSF TRNPEVISLEVAAVTVKEESED PDYDYITFKDLPGIAYETKAYV LWPQLSKICKSKNGDKNKAYRG QQCRLRQQNPLAALTGKISVSV YVSHPSLRVSIGWTRQVARQT MQKDRDGPLKNEGEKNCAGSE KNTLTSQLELEKQEQTTHSKAS RRQEITKIRAELEKETQKTV EK INESRSWFFERINKIDRPLARLIK KKREKNQVDAIKNDKGDITDP TEIQTIREYYKHL YANKLENV EEMDKFLDTYTL PRLNQEEVES LNR PITGSEIVAIINSLPTKKSPG PDGFTAIFYQRYKEELVPFLK LFQSIEKEGILPNSFYEASIIIAK PGRDTTKKENFRPISLMNIDAKI LNKILAKRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKKHMIIISIDAEKAFDKIQ QPFMLKSLNKL/DIGKNYFKVH MGPKKSPCRQVNPKEQSWR HHST*LQTLQGYSNQNSMVLV PKQRYRSMEQNTALRN NATYL QLSDL*QT*EKQAMGKGFI**
12507	42875	A	12582	722	4214	

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12508	42876	A	12583	228	1152	KNRDYNKLSLRPQCNCQTRTQN *ESHKPLNYMETEQPAPE*LL DT*R\MKAEIKMFFETNENKDT TYQNLWDAFKATASKTNKEKE KNQIDTIKNDKGDITTDPTIEQT TIREYYKHLKYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGAEIVAIINSLPTKKSPGPDGF TAEFYQRYKEELIGWLRESVSK ICKLFDHQVQVITGRLLIRFQIAF GTVVLCQLTRHIDVFVGKRLA NARFAPSLGGAPDLFTLKPCFV AVETQGDLPQATTVDIDGCL GKPANVQVALDLVDKGFQQW
12509	42877	A	12584	1	2028	
12510	42878	A	12585	2	2264	
12511	42879	A	12586	1	2130	
12512	42880	A	12587	1	2900	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERVSAE DEMNMKGEGKFREKRIKRN QSLQEIWVYVVRPNLCIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITSEYYKHLTYN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPIITGAE
12513	42881	A	12588	1	2745	
12514	42882	B	12589	1	3288	
12515	42883	A	12590	1090	2526	
12516	42884	A	12591	1	3242	
12517	42885	A	12592	3862	8976	RAKSPANIIMTGSNSHITILT VNGLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSLQRLDLSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDYRTLHPKST EYTFPSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
12518	42886	A	12593	1	1000	

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12519	42887	A	12594	1	979	MNNAKENFLGRFQDGRIGTAP VYSPQHQRNRRRVISALPTEPPL VIPRQTGFGVDLQQTPTDLQLR VLTVRRKTTKQEGHSTKTPSVR YHHQRPKEDKTTKMGRNQSRK AENSKNESASSPPKECSSSPATE QSWMENDFDKYTEVGFRQLVI TNFSELKEDVQTHHKEAKNLE KRLDEWLTRINSIENTLIDLMEL KTMARELRDSCSFQRQFDQVE ERVSVIEDQMNMKREEKFRE KKMLEVLPRAIRQEKEIKGIQL GKEEVKLSLFADNMTVYLENPI IS\PKISLS**ATSAKSQDIKSMC KNHKHSYTPITDKQRAKS
12520	42888	A	12595	1140	2210	KPWHKNFVTHAQASIADLIKW KKGYYQ*LKIKLMK*SKKTRNTN YHQNTINISMQIN*KI*KKWRNS WHTLSQY*TRKKLNL*IDQ*Q ALKL/QAIHSLPTKNVQGMQMD SQSNTTRVWGILARAIRQEKEI KDIQLENEEVKLSLFADDMTVY LENSIVSAQNLLKLRIKYLGIQL TTDVKDLFKENYKPLLNIKED TNKWKNIPCSWIRGINIMKMAI LPKLIYRFNAIPIKLPMTFFTELE KATLKFIWNQKRAHIAKTILSK KNKAGGIMLPDFKLYYKATAT KAAWYWYQNRDIDKKLTQIYK KKTNNPIKKWAKDMNRHLSKE DIYGANRHMKKCSSSLVIREKQ IKTTMR
12521	42889	A	12596	520	697	GLCSVPLLCISVLVPVPCCFGYC SLVV*FEVR*SDASSFVLLA*DF LGNAVSLVPYEL
12522	42890	A	12597	1	1410	
12523	42891	A	12598	1	1461	
12524	42892	A	12599	77	457	QALKLRQ*LIAYQPKRVQDQM DSQTNSARGTKRSWYHSF*NYS N/PTEKEGILLNSFYEAGIILPKP GRDTTKKENFRPISLMSINAKIL NKILANRILQHIKKLNTIKSASS LGCKAGSTYANQ

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12525	42893	A	12600	1	919	MGDFNTPLSTLDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFSSAPHHTYSKIDHILG SKALLSKCKRTEIITNCLSDHSA IKLELRIKKLTQNCSTTWKLNN MLNDYWEHNKMKAIEIKMFF ETNKNKDTTYQNLWDTLKAVC RGKFKALNAHKRKKERSQIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETETQKTLQRLMN PGAVLEVLAIRAIQKEIKGIQL GKEEVKLSLFADDMIVYLENP MSQPKISLS**ATSAKSQDIKSIY KNHQHSYTPIRDKQRAKS
12526	42894	A	12601	1	1264	MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIIINSIPTQKSSGPD GFTAIFYQRYKEELVPFLKLKLF QSIEKEGILPNSFYEASIIIPKPG RYTHKKNNFRPISLMNIDAKIL NKILANRIQQHIKKLIHQDQVGI IPGMQSWFNIHKSINVIQHINRT KDKNHMIIISIDAFAFDKIQQPF MLKTLNKLKIPKNPTYKGCE GPLQELQITAQRNKGKHKQM EEHPMLMDRKNEYHKNHGTTPK VIYRFNVIPIKLPMTFFSELEKST LKFIWNQKRARIAKTILSQKNK AGGIMLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEM TPHIYNHLIFDKPDKNKQWGK DSL FNKWCWENWLAIGRQLKL DPFLTPYTKINSRWIKDLNVRP KTIKTLEENLGNTIQDISMGKDF MSKTPKAMATKAKMDKWDLI KLKSFCTAKETTIRQSWPEMTK FTFSSNTDVKNWKHKGNNIGR HKTSVNTCKMDSGLVLERWM EWNPGFPLSIDAKCHKDLPRDI QFDSEKGVDFVLNYSKANMR WAGSMFL*FIESF*HEWLLNFV KGLFCIY*DNHVVFVFGSVYML
12527	42895	B	12602	1	1827	
12528	42896	B	12603	13	1377	
12529	42897	A	12604	557	664	KTPLSQPKISLS**ATTAKSQDT KSVYKNQQHSYT



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12530	42898	A	12605	77	1866	QAPKLRQ*LIAYQPKKVQDQTD SQPNSTRGTTKSWYHSF*NFSN/ PIEKEGIFPNLFYEANILIPKGR DTTKKENFRPISLMNVNAKILN KLLANQIQHIKKLIHNNQVGFI PGMQGWFNICKSINVQHINRT KDKNHRISIDA EKAFNKIQQPF MLKTLNKLDDMIVYLENPIVSA KNLLKLISNFSKVSQYKINVQK SQAFLYTNNRQAESQIMSAVSF TIASKRIKYLGIQLTRDVKDLFK ENYKPVLNKIKEDTNKWKNI PSLWIGRVNIMKMAILPKVIYRFN AIPKLPMTFFTELEKTTLKFIW NQKRAHIAKTILSKKNKAGGIT LPDFKLYYKATVTKTAWHWY QNRDIDQWNRTEPSEIIPHIYNH LIFDKLDKNKTLGKDYLFNKRC WENWLAICRKLKLDPFLTRYT KINSRWIKDLNIRPKTIKTEEN LGDTIQDIGMGKDFITKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWENIFAIPYPSDK GLISRIYKELKQIYKKKSNNPIK KWAKDMNRYFSKEDIYAANR HMKKCSSSLALREMQIKTTMR YHLIPVRMAIHKKSGNNRCW
12531	42899	A	12606	67	243	GLCCVPLIYISVLVPVPCCFGYC SLVV*FEVR*HDASSFVLLA*D* LGDVGSFLVPYEL
12532	42900	A	12607	1554	1692	
12533	42901	A	12608	640	816	GLCSVALVCISVLVPVPCCFGY CSLVV*FEVR*HDASSFVLFAD* *LGNVDSLLVPYEL
12534	42902	A	12609	1626	1739	

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12535	42903	A	12610	1	2014	MKREGSLEKKRIKRNEQSLQEI CDYVKRANLRLIGGPESDGENG TKLENTLQDMQEKFPNLARQA NIQIQEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAREKG QVTHKGKSIRLTADLSAETLQA RREWGPIFNILKEKNFQPRISYP GKLSFISEGEIKSFQDKQMLRDF VTTRPALKELLKEALNMEKNK QYQPPQKHAKLTREARANTFK PSRRREITKIRAELEIETPKTAQ KINESRSWFSEIRINKIDRPLARL RKKKREKNQIDTIKNDGEDITT HPTEIHTIIREYYKHLIYANKLEN LEEMDKFLDTYTLPRPNQEEVE SLNGPIAGSEIQAIINSLPTKKSP GPDGFYQRYKEELVPFRLKLFQ SIEKEGILPNSFYEASIIIPKPR DTTKKENFRPISLLNINAKILNKI LANRIQQHIKLMHHDQVGFIP GMQGWFNIRKSINVIQHINRTK DKNHMIISIDAEKAFDKIQQPF MLKTLNKLIGDGTYHKIIRANY DKPTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAIR QEKETEGIQLGKEEVKLSLFAD DMIVYLENPMMSQPKISLS**ATS AKSQDTKSMCKNHHKYSYTPIT DKQRAKSSVNSPFTIASKRIKYL GIQLTRYVKDLFKERSMK
12536	42904	A	12611	1	700	MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLSTKKSPGPD GFIAQFYQRTKDKNHMIISIDAE KAFDKIQQHFMLKTLNKLIGD TYLKIIRAVYDKPTASIILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKLSLFADDMIVYLENPMMSQ PKISLS**ANSAKSQDIKSMCKN LKHSYTLITDKQRAKSSVNSHS QLLQRE
12537	42905	A	12613	1	1765	
12538	42906	A	12614	1	2310	

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12539	42907	A	12615	1	836	MENEFDELTEVHFRRWVITNSS ELKEHVL TQCEEAKNLARRNK LENLEEMDKFLATYTFPSLNQE EVESLNRPTSSIEEAAINS LPTK KHPGPDGFTAKFYQRYKEELHI NRAKDKNHMII SIDA EKA FDKI QHPVKLKILNKL GIDGTYLKIIR AIYDKPTANLILNGQKLEAFPL KTGTRQGCP LSP LFNIVLEVLA RAIRQEKEIKGIQLGKEEVKLSL FADD\RLYI*GTPLSQPKISLS** ATSAKSQDTKSMYKNHKHSYT PTTDKQRAKS
12540	42908	A	12616	355	4502	QSARFRGRRTLRRPGVGYSLV *FEVR*CDASSFVLLA*DCLGN AGSFLVPYEL
12541	42909	A	12617	248	362	
12542	42910	A	12618	529	680	YYTRCSKWWNCSVLP*YIYNF HLPHGKLNKNTDYIKKKLH DFF KNSKHI
12543	42911	A	12619	1	641	
12544	42912	B	12620	36	48	
12545	42913	A	12621	1	326	
12546	42914	A	12622	1	444	PGSTHASAHACERLQTRTLRAF SSQRRFPATASRASLSSNMAKIS SPTETERCIESLIAVFQKYAGKD GYN YTL SKTEFLSFMNTELA AF TKNQKDPGCP*PHDGRKLGQPT VDGQLDFSEFLNLIGG\QAMAC HDSFLKAVPSQKRT
12547	42915	A	12623	2	6008	
12548	42916	A	12624	530	856	

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12549	42917	A	12625	1	952	MAARGTGDKVKPGCEEAGAAF ELPPSVYAAALHESHQHQP CGARAQRVPGGIVTEPLTCTPP KDMVFLSDDGDDDDDDND GGGDDNDGNDNDGNDNDGND DDGDDNDGDDGDDNDGNDG NDGNDNDGDDNDSDNGND GDGDDGVDGDDNDSDGNDG DDDDSDGDDGSDNGYDDGDD GNDGDDGSDGDDSDNGDGD NGDGDGDDGGGDDDDNGHDD DGDMMMMIVMMVMVMMVV MMVMVMVVVVQLRKRAEA SVSEAKCSINVSDNDGDDGN DGDGDDSDGDDGDDGGDGGD SELTNQFPTNHSGMKASKLRK DSDHREW*W**WWWWCN*GR EQRPVFLKQSAQLMSVIMMM VMVMVMVMVMVMVMTMV VVMVIVNSPINSRLITQA
12550	42918	A	12626	3	380	
12551	42919	A	12627	5	765	RQWEVGRWSGTTIFSCFKKTL YFTNPSPSSSLVTILRREVTH/ CGGAPEQRYQIIPVCVAARLPT RAQDVLD AHLSEVNAVRF GPN SSLLATGGADRLIHLWNVVGSR LEANQTLEGAGGSITSVDFDPS VRNSAPVAWDCALSDLHTGGG YQVLAATYNQAAQLWKVGEA QSKETLSGHKDKVTA AKFKLT RHQAVTGSRDRTVKEWDLGRA YSPKRQRPSRTGHDDGDFVE KKRGKCGEKRDQIVTVSV
12552	42920	B	12628	1	2802	
12553	42921	A	12629	458	708	QNRHRHHGPFMSVAVSSQLLD TPAERLSLHTWKIAQRPGRGTP HFPDGA V/QAETLPQTGRPGR GTPHFPDGAASSFGYCSLVA
12554	42922	A	12630	2300	6491	EGLEALIHQERLSYWANQVSED RPVCKAIIQKGKQFGLVDTGAD VSHALNQWPKNWPKQKAVTG LVGIGTASEVYQSMEILHCLGP DNQESTVQPMITSIPNLWGRD LLQQWGAEITMPAPLYSPTSQK IMTKMGYIPGKGLGKNEDGIK VPVEAKINQEREGIGYPFLGAV TVEPPKPIPLTWKTEKPVWVNQ WPLPKQKLEALHLLANEQLEK GHIEPSFSPWNSPVFIQKKS GK WHTLTDLRAVNAV

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12555	42923	A	12631	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGTHGTDVSDGFKG GLIEIPDSIGKDKEKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
12556	42924	A	12632	1	642	
12557	42925	A	12633	260	534	
12558	42926	A	12634	1	438	
12559	42927	C	12635	391	750	
12560	42928	A	12636	199	451	
12561	42929	A	12637	120	992	RDRIPGPVCKGKWKNKERILIFS SRGINFRTRHLMQDLRMLMPH SK\HDTNMARSDNLSVINEGCE MNNWLRCIYFEAKKKQDLYM WLSNSPDGPSAKFLVQNIHTLA ELKMTGNCLKGSRPLLSFDPAF DELPHYALLKELLIQIFSTPRYH PKSQPFVDHVFTFTILDNRIWFR NFQIIEEDAALVEIGPRFVLNLIK IFQGSFGGPTLYENPHYQSPNM HRRVIRSITAACYREKQQVKDV QKLKKEPKTLLPHDPAADV VTPAEEKPIEQWVKPETKVDL KASV
12562	42930	A	12638	1	342	
12563	42931	A	12639	1	580	PGWEKRMSRSS/GVNTQEALPT AAIPTDAKVRVYFYFNHITNASQ WERPIGNSSSGGKNGQGEPARV RCSHLLVKHSQSRRPSSWRQEK ITRTKEE\ALELINGYIQKIKSGE EDFE\SLASQFSDCSSAKA\RGD LG\SFSRGQMOKPF*RTPRFAL\ RTGGDERGPCFTD\SGIHILPHL SEGGKPRPGLGAGQGG
12564	42932	A	12640	3	116	
12565	42933	A	12641	2	253	
12566	42934	A	12642	3	512	EDYLERKRQ/VPTECQTHSKLG GPMTLKREVKP/KVDVSPSKKG PL\QHHTLL\VCHVRIFYPGSIQ/ VRWFLNGRKKTAGVVPNLIR NGDWT/FQILVMLEM/TPQQGD VYTCQVEHTSLDSPVTVEWKA QSDSARSKTLTGAGGFVLGLIIC GVGIFMHRRSKK\FNEDLHKQG
12567	42935	A	12643	1	363	
12568	42936	B	12644	70	1229	
12569	42937	A	12645	1	430	
12570	42938	B	12646	1	1321	
12571	42939	A	12647	3	446	

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12572	42940	A	12648	1	417	
12573	42941	A	12649	269	452	TILRSFGYFFRRINIMLTEEKIKS DHRKISQLIFLQKLCQTLQSENV SQGGMLYRAKA*H*T*TLVWV *HVMSYPHKGLGLMLSLCSVK HSTLRDVFTL
12574	42942	A	12650	83	1385	
12575	42943	A	12651	1	974	MNPLECVDRSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAASLTGQELLAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGILCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVSYDMNPMDLFCANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12576	42944	A	12652	1	1103	MNPLECVDRSSQPWGNPTWTS SGMRSVTFLVGFKLTFLALAQT LNAAASLTGQELLWNFPLLMF AWKIAPALCCGNTTVVIKPAEQT PLSALYMGALIKEAGFPPGVINI LPGYGPTAGAAIASHIGIDKIAF TGSTEKEAELHSWIKGLTCISIE PDFQKSLKDGILCILMNKLQPA SFPKINHSMQKWHQLENLSNFI KAVVSYDMNPMDLFCANNLFE SGNMRHMQVSLFALAGKVKT KRPQSGVDIGIKYSEKQEQNFS DAAMKAGQCVIGLQMGTNKC TSQLGMTVYGMGTNNCASQVS MTAPGTRQHICDTKLGTDKCG NSSMSLQMGYT/QGAANQPRV CEWQRGIRQQGFLPPCLGPSQE
12577	42945	A	12653	1	729	
12578	42946	A	12654	259	390	SFCSANFEVFRLTAQQ*FVR*H ALSHIF*G*V*SFPKSTKRVNF
12579	42947	A	12655	68	735	
12580	42948	A	12656	1	825	
12581	42949	A	12657	3	470	
12582	42950	A	12658	1	1683	

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12583	42951	A	12659	1	1748	MNKPYIRNLSENAAPLDLEGIL KDAKIPVSGPFLVKIGYAFVDC PDEIWALKAI EALSGKIELHGKP IEVEHSVPKRQRIRKLQIRNIPPH LQWEVLDS*LVQYGVVESCQQ VNTDSETAVVNVITYSSKDQAR QALDK/LLDKLNGFQLENFTLK VAYIPDEMATQQNPFLQPRGRR GLGQRGSSRQGSPPSVSKQKPC DLPLCLLVPTQFVGAIIGKEGAT IRNITKQTQSKIDVHRKENAGA AEKSITILSTPEGTSAACKSILEI MRKETQDVKFTEEIPLKILAQN NFVGRLLIGKEGRNLKKIEQDTD TKITISPLQELMQYNPEHTITAK GNVETCAKAE EIMKKIRER*E NDITSM/N/LQAHLPGLNLNAL GLFPPTSGMPPPTSGPPSAMTPP SPQSESESETVHLFIPALSVRA LISKQGQHIKQLSRFAGASSKIA PVEAPDAKVRMVMAGSPEAR FKAQGRIYGKIKEENFVSPKEE VKLEAHIRVPSFAAGRVIGKGG KTVNELQNFSSAEVVVPRDQTP DENDQVVVKITGHFYACQVAQ RKIQEILTQVKQHQQQKALQSG
12584	42952	A	12660	3	803	
12585	42953	B	12661	1	330	
12586	42954	C	12662	127	342	
12587	42955	A	12663	324	491	
12588	42956	A	12664	1	891	
12589	42957	B	12665	1	1869	
12590	42958	A	12666	2	136	
12591	42959	A	12667	108	355	
12592	42960	A	12668	2	811	FGMRGSRGGWAGEMAASGES GTSGGGGSTEEAFMTFYSEVKQ IEKRDSVLTSKNQIERLTRPGSS YFNLNPFVLQIDPEVTDEEIKK RFRQLSILVHPDKNQDDADRA\ QKAFEAVDKAYKLLLDQEQKK RALDVIQAGKEYVEHTVKERK KQLKKEGKPTIVEEDDPFLFKQ AVYKQTMKLF AELEIKRKERE AKEMHERKRQRE EIEAQEKA KR/EEREWQKNFEES\RDGRVD SWRNF\QAQFRRGKKEKKNRTF LRPPESKNGSNVE
12593	42961	A	12669	731	850	
12594	42962	A	12670	201	377	LMTLPCKIPSPGSSWLKISPIEHL MTPTPASQRTTTPFDCNFPLPTQI L*NGPTPISLH

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12595	42963	A	12671	742	2982	KIFPFDASFLPCLHKFNKKGKGN NSKGFKMAEFESLMNIHGFDL GSRVMDLKPLGCGGNGLVFSA VDNDCDKRVAIKKIVLTD PQSV KHALREIKIIRRLDHDNIVKVFE ILGPSGSQLTDDVGSLELNSV YIVQEYMETDLANVLEQGPLE EHARLFMYQLLRGLKYIHSAN VLHRDLKPANLFINTEDLV LKI GDFGLARIMDPHYSHKGHLSE GLVTKWYRSPRLLSPNNYTK AIDMWAAGCIFAEMLTGKTLF AGAHELEQMQLILESIPVVHEE DRQELLSVIPVYIRNDMTEPHK PLTQLLPGISREALDFLEQILTFS PMDRLTAEALSHPYMSIYSFP MDEPISSHPFHIEDEVDDILLMD ETHSHIYNWERYHDCQFSEHD WPVHNNFDIDEVQLDPRALSD VTDEEEVQVDPKYL DGDREK YLEDPAFDTNYSTPCWQYSD HHENKYCDLECSHTCNYKTRS SSYLDNLVWRESEVNHYEYEPK LIIDLSNWKEQSKEKSDKKGKS KCERNGLVKAQIALEEASQQLA GKEREKNQGDFDFSFIAGTIHLA SSQHEPTDVGDKLNDLNSSVS QLELKSLISKSVSQEKQEKGMA NLAQLEALYQSSWDSQFVSGG EDCFFINQFCEVRKDEQVEKEN TYTSYLDKFFSRKEDTEMLETVE PVEDGKLGERGHEEGFLNNSGE
12596	42964	A	12672	826	1041	WKITVKGGVFLWWAGVGD TKVLSGGAF*ARMSQEEDFHKVM SSVKARTGHLHFFCGGMSSVK AGQGPFVLL
12597	42965	A	12673	1	1482	
12598	42966	A	12674	3	488	
12599	42967	A	12675	2	114	



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12600	42968	A	12676	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTDDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSSDFCHWGQRFR Y\SYIDESQGEIY*SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQCARNWQD SSVSYAAGALTVH
12601	42969	A	12677	2	114	
12602	42970	A	12678	1	897	MSNRVVCREASHAGSWYTASG PQLNAQLEGWLSQVQSTKRPA RAIIAPHAGYTYCGSCAAHAYK QVDPSITRRIFILGPSHHVPLSRC ALSSVDIYRTPLYDLRIDQKIYG ELWKTGMFERMSLQTDDEHS IEMHLPYTAKAMESHKDEFTIIP VLVGALSESKEQEFGLFSKYL ADPSNLFVVSSDFCHWGQRFR Y\SYIDESQGEIY*SIEHLDKMG MSIIEQLDPVSFSNYLKKYHNTI CGRHPIG\VLLNAITELQKNGM NMSFS\FLNYAQSSQCARNWQD SSVSYAAGALTVH
12603	42971	A	12679	1	912	
12604	42972	A	12680	1	156	
12605	42973	A	12681	112	1120	
12606	42974	A	12682	33	415	NMNKPITPSTYVRCLNVGLIRK LSDFIDPQEGWKKLAVAIAKKPS GDDRYNQFH\DAVPKTANTLP SKEAITVQQKQMPFCDKDRTL MTPVQNLEQSYMPPDSSSPENK SLEVSDTRFHSFSFYELKN
12607	42975	A	12683	3	311	
12608	42976	A	12684	1	1125	
12609	42977	A	12685	1	1365	
12610	42978	A	12686	3	141	VVSTVVPDS/AHKLFIGGLPNYL NDDQCHGLSKGYAFCEYVDIN VTV

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12611	42979	A	12687	1	1255	GTRSTSSLRRQMKNIHVHNYSEA EIKVREATSNDPWGPSSSLMSEI ADLTYNVVAFSEIMSMIWKRL NDHGKNWRHVYKAMTLMEYL IKTGSERVSQQCKENMYAVQT LKDFQYVDRDGKDQGVNVRE KAKQLVALLRDEDRLEERAH ALKTKEKLAQTATASSAAVGS GPPPEAEQAWPQSSGEEELQLQ LALAMSKEEADQEERIRRGDDL R\RRWQSRARRGR LGARRSRPS WTLTSSRPQLLPRPQTGGAAQ HPWLLPSPRLPPRTPGAAPLSL QLLIPGEVQPPRRPLGTPGGLLP LQDPQLTLGVGPQLQLGRGPR LIHGEVPMVGSRSVGPQPPIPGH RPRPSQIPGEGHLPSPAPMAQQ QPGDSTRSPTSSLTLTDSARHCR PPGAAQESWSCWQERCPEAL
12612	42980	A	12688	116	1541	
12613	42981	A	12689	3	415	
12614	42982	A	12690	1	1440	
12615	42983	C	12691	117	314	
12616	42984	A	12692	3	120	
12617	42985	A	12693	1	729	
12618	42986	A	12694	79	870	EWSSVRRSLVEKRALRRPHPQC LCFRMKTILSNQTCRPFPE\NVD \ITLKGRP\ VIV*GPAEGTLR\ RDF \NHLQW*NLSLSWKEKKRGS VDK\WWGNRKGNWPTVVRTYL VVHVQN\MIKGVLPGLPVTKD EGLVYA\HFPHTLVIPGRNGSS LLKSRNFLGVKNTSRRVSG*RP G\VACS\VSSSPRKDEFNPLKGN DIGACFQISAGFGFQQAPHTCL KTRDIQGNFWDGYPMVLWKK GTVSARAGWNKDLKEFTWATE RKMPG
12619	42987	A	12695	2	293	
12620	42988	A	12696	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS
12621	42989	A	12697	1	1308	

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12622	42990	A	12698	124	1135	DKNSMGLPGVIPSCAAVLWSSI HLSSSALSPTISACRHPMEDSM DMDMSPLRPQNYLFGCELKAD KDYHFKVDNDENEHQLSLRTV SLGAGAKDELHIVEAEAMNYE GSPIKVTLATLKMSVQPTVSLG GFEITPPVVLRLKCGSGPVHISG QHLVAVEEDAEESEDEEEEDVK\ LLSISGKRSAPGGGSKVPQKK\ KLAAD\EDDDD\DEEDDDDD \DDDDF\DEEEAEEKAPVK\KSI\ RDTPAKNAQKSNQNGKDSKPS STPRSKGQESFKKQEKTPKTPK GPSSVEDIKAKMQASIA/EKGGG LPKVEAKFINYVKNCFRMTDQ EAIQDLWQWRKSL
12623	42991	A	12699	201	416	
12624	42992	A	12700	2	678	
12625	42993	A	12701	3	2149	
12626	42994	A	12702	1	219	
12627	42995	A	12704	267	437	
12628	42996	A	12705	507	845	
12629	42997	A	12706	426	704	SRRWGGVHSCPPSPPTAGHWT LLILCAKARRSEAAMVLASRRR RPGPRPRRRRLPVLGSRGGAG PARGRGPSPGWPGLRAAPSP*P SSTV
12630	42998	A	12707	195	892	
12631	42999	A	12708	1	893	
12632	43000	A	12709	1	777	
12633	43001	A	12710	1	439	KTQVAPSTDGIQPSSNSRTDE REFFIASYNRKKEDGEQNVWIA KSSAGAKGEGILISSEASELLDFI DNQAQVHVIQKYLEHPLLEPG HRKFDIRSWVLVDHQNIIYLY REGVLRRTASEPYHVDNFQDKT CHLTNHC IQKKKKK
12634	43002	A	12711	1	394	SGTRPVFLVPHTIGIPHPAIVTP QVKQEHPTDSDLMHVVKPQHE QRKEQEPKRPHIKKPLNAFMLY MKEMRANVVAECTLKESAAIN QILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDN
12635	43003	A	12712	1	789	
12636	43004	A	12713	1	870	
12637	43005	A	12714	1	729	
12638	43006	A	12715	1	828	
12639	43007	A	12716	1	213	
12640	43008	A	12717	1	664	
12641	43009	A	12718	1	695	
12642	43010	A	12719	96	269	

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12643	43011	A	12720	3	241	
12644	43012	A	12721	213	660	EGPARHRLSPVRASKMTKKR RNNGRAQKRAARHVRGPSPLK/ CFPSGPLPPNCAR\CVPK\DKAIK KFV\RNIVEAAA\AR\DISEASV FDAYL\LPKL\YVKLH\YCVSCAI HKQK*SGNRSS*SPAKTRTPPPR FR\PGG*LPHGPPTKSP
12645	43013	A	12722	1	303	
12646	43014	A	12723	610	928	FLSLPTFLFVIFSGEELLVLALV FLSLFFFFFFLRFWSFAVVAQAV\ VQWHNLSSLPFGFKQFCSLSLP SSWDYRCPPPRPNFCIFTRDG VSPCCPGWSRTSDLR
12647	43015	A	12724	1	2775	
12648	43016	A	12725	1	6039	
12649	43017	A	12726	2	3661	
12650	43018	A	12727	1	1173	
12651	43019	A	12728	1	1632	MPNPKNSKGGRKNKRANSSGD EQENGAGALAAAGAAGAAAG GALAAAGCGAAAAGAPGAG GAAGAGGAGTGAANAAAAAG AAAAGDAKNEAPCATPLICSFG RPVDLE\KDDYQKVVCNNEHC PCSTWMHLQCFYEWESSILVQF NCIGRARTWNEKQCRQNMWT KKGYDL\AFRCSCRCGQGNL KKDTDWYQVKRMQDEKKKKS GSEKNTGRPPGEAAEEAKKCRP PNKPQKGPSHDLPRRHSMRQ NSQEKA VGAAAYGARSPGGSP GQSPPTGYSILSPAHFSGPRSSR YLGEFLKNAIHLEPHKKAMAG GHVFRNAHFDYSPAGLAVHRG GHFDTPVQFLRRDLSELLTHIP RHKLNTFHVRMEDDAQVGQG EDLRKFILAALSASHRNVVNCA LCHRALPVFEQFPLVDGTLFLSP SRHDEIEYDVPCHLQGRMLHL YAVCVDCLGVHKIICKCKSR WDGSWHQLGTMYTYDILAASP CCQARLNCKHCGKPVIDVRIG MQYFSEYSNVQQCPHCGNLDY HFVKPFSSFKVLEAY
12652	43020	A	12729	1	1485	
12653	43021	A	12730	1	1074	
12654	43022	A	12731	2	3394	
12655	43023	A	12732	1	2190	
12656	43024	A	12733	1	1251	
12657	43025	A	12734	1	1710	
12658	43026	A	12735	3	679	

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12659	43027	A	12736	209	337	
12660	43028	A	12737	365	538	
12661	43029	A	12738	2	196	
12662	43030	A	12739	1	2639	
12663	43031	A	12740	3	173	
12664	43032	A	12741	1	1479	
12665	43033	A	12742	1	921	
12666	43034	A	12743	1	798	
12667	43035	A	12744	2	773	
12668	43036	B	12745	75	321	
12669	43037	A	12746	321	738	
12670	43038	A	12747	1	3190	
12671	43039	A	12748	287	1636	ACGAMERAPPDGPLNASGALA GDAAAAGGARGFSAAWTA AALMALLIVATVLGNALV FVADSSLRTQNNFFLLNLAISDF LVGAFCIPLYVPYVLTGRWTFG RGLCKLWLVVDYLLCTSSAFNI VLISYDRFLSVTRAVSYRAQQG DTRRAVRKMLLVVLAFLLYG PAILSWEYLSGGSSIPEGHCYAE FFYNWYFLITASTLEFFTFLSV TFFNLSIYLNQRRTRLRLD GAR EAAGPEPPPEAQSPPPPGCWG CWQKGHGEAMPLHRYGVGEA AVGAEAGEATLGGGGGGGSVA SPTSSSGSSSRGTERPRSLKRG KPSASSASLEKRMKMVSQSFTQ RFRLA\DRKEAKSLAVIVSIFG LCWAPYTLLMIIRAACHGHCV PDYWYETSFWLLWANSVNPV LYPLCHHSFRAFTKLLCPQKL KIQPHSSLEHCWK
12672	43040	A	12749	1	2142	
12673	43041	A	12750	3	711	VWWNSDLMVINRSTTELPLTV SYDKVSLGRLRFWIHQDAVY SLQQFGFSEKDADEVKGIFVDT NLYFLALTFFVA AFHLLFD FLA FKNDISFWKKKSMIGMSTKA VLWRCFSTVVIFLFLLEQTSLL VLVPAGVW/AAAIELWES* RK/ VI* RWTIFWRGLMPEFQFGTYS ESERKTEEYDTQAMKYSYLL YPLCVGGAVYSLNLIKYSWY SWLINSFVNGVYAFGFLFMLPQ
12674	43042	A	12751	1	2025	
12675	43043	A	12752	494	747	ATVKWITLCRNRNIKLP TFIKKE GTGKAPKKSRSVLGLGP* VHT SPGDPAGEGLPAGERPDG NLS QSPNSLRFYIKKKKAYK
12676	43044	A	12753	9	731	

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12677	43045	A	12754	143	641	RSWVLLGVGARGSTPRTYQVP SPSLAPSALC*VS*VPLESLSCSH ADNWKQELTKFISPDQLPVEFG GTMTDPDGNPKCLTKINYGGE VPKSYYLCKQVRLQYEHTRSV GRGSSLQVENEILFPGCGLR\VL RFYNTYSLVHSKRISYTVEVLL PDQTFMEKMEKF
12678	43046	A	12755	1	1506	
12679	43047	A	12756	2	526	CQPVRAA*RHGNTPLATV*PAS T/WWKWSEKQKEEQEMQNWR ESAS/VSGYPQDILSCAMSQNPR KRKRPRNVSAPPVHQMAQMNI SVEQMETS KTHQATPLTWGQM KRLAHVAEENLRSQNKPLTTSN LMVAMMVVISLAVSLPVAGAD QNYIYWAYIPFPH
12680	43048	A	12757	1	1443	
12681	43049	A	12758	3	766	
12682	43050	A	12759	29	253	
12683	43051	A	12760	34	252	
12684	43052	A	12761	1362	1611	SSVLHPWDARLVQHTKSIHIIH HINRTNDKNHMIISIDAEKAFD KIQQDFMLKTLNKLIGDGYLK IVRATYDKPTASII L NG
12685	43053	B	12762	1	1755	
12686	43054	A	12763	1	2109	
12687	43055	B	12764	1	1497	
12688	43056	B	12765	1	1527	
12689	43057	B	12766	1	1746	
12690	43058	B	12767	1	2853	
12691	43059	B	12768	1	1479	
12692	43060	B	12769	1	1932	
12693	43061	A	12770	1269	1581	NTGKPNPAAHQKGYPPRSSGPH PWDARLVQHTKSIHIIHHINRT KDKNHMIISIDAEKAFDKIQLPF MLKTL SKLGVSYNMFTRLTIPI AQVDTRGNQLPSYLI
12694	43062	B	12771	1	4404	
12695	43063	B	12772	56	2080	
12696	43064	B	12773	1	5445	
12697	43065	B	12774	295	2831	
12698	43066	A	12775	89	459	
12699	43067	A	12776	2	980	
12700	43068	A	12777	1	378	
12701	43069	A	12778	1	363	PGVALPGRRCRQAPADLLP*MR AYWPDVIYSFANRSRFWKHEW EKHGTCAAQVDALNSQNKYFG TSLELYRELDLNSVLLKLGIKPS INYYQVADFKDALARVYGVIP KIQCLPPSQDEDRQ

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12702	43070	A	12779	1	577	QRFKNDICRDPDRTGPIHGLWPD KSEG/CNRSW/PFNLEEI <del>KDLCP</del> EMRAYWPDVIHSFPNRSR <del>FWK</del> HEWEKHGTCAAQVDALNSQK KYFGRSLELYRELDL/NQVADF KDALARVYGVIPKIQCLPPSQD EEVQTIGQIELCLTKQDQQLQN CTEPGEQSPKQEVWLANGAA ESRGLRVCE <del>DPVFYPPPKTK</del>
12703	43071	A	12780	1	624	MRPAALRGALLGCLCLALLCL GGADKRLRASVSRPFSLEHPEP GHCLDLHLRAYPAR\WSS*PWP QDFWVR*PTWES/VSDLLPEMR AYWPDVIHSFPNRSR <del>FWKHEW</del> EKHGTCAAQVDALNSQK <del>KYFG</del> RSLELYRELDLNRGERVPTQFP RELVVNRSLAPPPTPGFLSGHVI SVHTSSPLPSAMSGSFLRPLPEA ESGSMLLGQPADP
12704	43072	A	12781	1	612	
12705	43073	A	12782	113	1149	RGAPRGPGRQGCCGHSRSPAR GPRDTGLGRPRAPGAPGGRCCS GGSAAARGLGDSVSPGSLPRAA GGKWEPERQLAAFPQVGTMR PAALRGALLGCLCLALLCLGG ADKRLRDNHEWKKLIMVQHW PETVCEKIQNDCRDPDPDYWTIH GLWPKSEGCNRSWPF\NLEEI KDLLPEMRAYWPDVIHSFPNRS R <del>FWKHE/WPKRHGTCAAQ\VD</del> ALNSQK\KYFGRSLELY\RKLDL NSVL\KLGKIPSINYYQVADFK DALARVYGVIPKIQCLPTSQGE\ EVQTIGQ\IDLCLIKARTRQLQN\ CTEPGEQ\SPKQEVWLANGA\ AESRGLRVCE <del>DPVFYPPPKTK</del>
12706	43074	A	12783	2	515	
12707	43075	B	12784	62	359	
12708	43076	B	12785	219	523	
12709	43077	A	12786	1010	1550	DTENIPSSRRRERSKVPYIVRQC VEEIERRGMEEVGIIHVSGR/V AADIQALKAAFNVSECRPAQD GMEVWAVVSAMRSQSAPRPRH VTSFSVSFLHLSGSSRRPLHFRA LS\NNKDVSMMSEMDVNAIA GSLKLYFRELPEPLFTDEFYPNF AEGIGEHWRPWPHGRLLHVH CCPQRL

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12710	43078	A	12787	2	951	GSNLYCTLEGDSFGYFVNKAK TRVYRD/THADPNWNEEFIEL EGSQTLRILCYEKCYNKTKIPKE DGESTDRLMGKGQVQLDPQAL QDRDWQRTVIAMNGIEVKLSV KFNSREFSLKRMPSRKQTGVFG VKIAVVTKRERSKVPIYIVRQC VEEIEPPKALEGGWASTACPAG VATDIQALKAAFDGNNKDVSV MMSEMDVNAIAGTLNLYFREL PEPLFT\DEFYPNFAEG/IRVAEK EAVNNM\SLHNLATVFGPTLLR PSEKESKLPANPSQPITMTDSW SLEVMSQVQVLLYFLQLEAIPA PDSKRQSILFSTEV
12711	43079	A	12788	3	644	
12712	43080	A	12789	168	378	
12713	43081	A	12790	1	486	
12714	43082	A	12792	83	536	
12715	43083	A	12793	1	662	
12716	43084	A	12794	3	357	
12717	43085	A	12795	2	421	
12718	43086	A	12796	2	908	
12719	43087	A	12797	1	846	
12720	43088	C	12798	87	413	
12721	43089	A	12799	1	508	MCQGDYAWGGHMCRRGGHLR RGHSHERDTPRGPERPPPPAR DRESKDERRRPPPKDPPAVRTC\ PDSPSTATPPPPPPPPPPPPPPPP PAAPSAFAALRLRGPRKWT RGQLPLPATAPPEARVRALPRGG YSSPGRATSARGPAPWPLPSRT GKPPRPCSANTQEH
12722	43090	A	12800	1	393	
12723	43091	A	12801	1	582	
12724	43092	A	12802	1	1422	
12725	43093	A	12803	1	1080	
12726	43094	A	12804	2	261	SCPFGGNCFYKHA YPDGRREEP QRQKVGTSRYRAQRNRHFW LIEERENSPPFDNDEEEVVT FELGE\MLLMLLAAGGDDEL TNS
12727	43095	B	12805	60	802	
12728	43096	A	12806	2	238	
12729	43097	A	12807	1	1017	
12730	43098	B	12808	1	939	
12731	43099	A	12809	1	708	



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12732	43100	A	12810	1	2653	MGDFNTPLSTLDRSMRQKVNK DIQELNSALHQADLDIYRNLHP ESTEYTFFSAPHHTYSKIDHILG SKAPLSKYRSEIKINCLSDHSA IKLELRIKKLTQNRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDTLKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI SKIRGELKEIETQKTLQKINESR GWFFEKINKIDRLLARLIKKKR EKNQIHAIKNDKGDMSTNHTEI QTTIREYYKHLYANKLENLKEI DKFLETYSLPRLNQEEVESLNR PITGSEIEAIIINSLPNKRSPGPDG FTAKFYQRYKEELLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRMKYLGIQPT RDMKDLFKENYKPLLNEIKEDT NKWKNIPCSWVGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQKNKAGGIMLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEIMPHIYNHLIFDKPDK NKKWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENPGNTIQDI GMGEDFMSKTPEAMATKAKID KWDLIKLSFCTAKETTIRLNR PPTWEKIFAIYSSDKGLISRIYN ELQQIYEKKTNNPIKKWAKDM NRHLSKEDIYAAKRHMKKCAS
12733	43101	B	12811	1	2748	
12734	43102	A	12812	1	1962	
12735	43103	B	12813	1	1833	
12736	43104	A	12814	176	421	QQPASPTRSVLLFPKTAHISGSP APPNVGLLNPSTGAAQKKTMT SAGLGRLSL*K*LNLPECVACA GETWVTSMMSGNQCN

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12737	43105	A	12815	1	1615	LISNFSKVSGYKINVQKSQAF L YTNNRQTESQIMSELPFTIASKR MKYLGIQPTRDMKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMAILPKNWKKTTLKFI WNQKRARIAKSILSQKNKAGGI MLPDFKLYYKATITKTAWYWY QNRDIDQWNRTEPSEIMPHIYN HLIFDKPDKNKKWGKDSL FNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENPGNTIQDIGMGEDFMSKTPE AMATKAKIDKWDLIKLKSFC AKETTIRLNRPTEWEKIFAIYS SDKGLISRIYNELQQIYEKKTNN PIKKWAKDMNRHLSKEDIYAA KRHMKKCASSLAIREIQIKTTM RYHLTPVRMAIIKKSGNNRCW RGCGEIGTLLHCWWDCCLVQP LWKS VWRFLRDLELEIPDPAIP LLGIYPKDYKSCCYEDTCTHMF IVALFTIAKTWNQPKCPTMIDW IKKMWHIYTM EYYADIKKDEF MSFVRTRMKLETIILSKISQ\ EK KTKHRMFSLIGGN
12738	43106	A	12816	1	996	
12739	43107	A	12817	1	756	
12740	43108	A	12818	1	1428	

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12741	43109	A	12819	1	2377	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQGMQGWFNIRKSI NIVQHINRTNDKNHMIISIDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTRQGCPLSPLFNIV LEVLARAIRQEKEIKGIQLRKEE IKLSLFADDMMIVHLENPIVSAQN LLKLIDNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SERIKYLGILTRDVKDLFKEN YKPLLNDIKEDTNKWKNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMTEFFTELEKTTLKFIWN QKGARIAKSILIYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPDKNKKWGND LFNKWCWENWLAICRKLKLD FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNTIQDIAMGKDFMS KTPKAMATKAKIDKWDLINLK SFCTAKETTIRVNRQPIEWKIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKRHMKKCSSLAIREMHI KTTMRHHLTSVRMAIHKKLG DWCWRGCGEIGRLLHCWWDC KL VQPLWKS VWRFLRDLELET PFDPATPLLGIYPKDYKSCCYK DICT/RVCVPAALFTIANTWNPT
12742	43110	A	12820	1	4840	
12743	43111	A	12821	578	630	EYKNR*GLSLNPWGKTVHISW DVWSVGSSKAKRNWESWES*C RGIQKKASLSRTGNHSASSGI* ESRV*GLGTTGYRGITASLMSL RSCTRLH
12744	43112	A	12822	8	214	EEWPKRKSEIRERPRP*SWPSDK QTLVVQRGQKMEQANHPDPTD HMSQLMWTACPKGLGIALICL VRH
12745	43113	A	12823	33	240	GGGRNTWLQAVPGFPGW*RTL RTAVWDRRLTLRKPHHCPGGS QFPGPQRQVIGLLHFLSSLNHQ GWFV

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12746	43114	A	12824	1	411	MSTITQRKEENPSVFLEWLWEA /CKKIYSPVTRLTRGSIDPKR*V YYAISHRYQQKAPKPSGP*TK SGGIKPGNLGVLY*GPRGTGQ KGKARSEKGCSLSHGPTNKP WWFREDRKWSRPITWYGFLSV WFARTP
12747	43115	A	12825	1	611	
12748	43116	A	12826	120	493	KYRAQRRMIARWLPQDLERGE AMLPNSSGWYKSLKGI/VLISEA FCKCRAASLTADWL*V*KQHS SPKKVQSPFSAVRRSKPWQFW RVTAQKQSIWDCRVRIDFVISC KLRNPLRVCGSRILK
12749	43117	A	12827	1	2195	VGEEGPAGVEGLNFPQAQSRRLP GPQQCSPGAEQASARARRPRP RPRPAAMVPGVPGAVLTCLW LAASSG\SWRPAPAR\CAAAG RVAVCRERPARS\CASRCLSLQI TRISAFFQHFQNNGLVWCQNH KQCSKCLEPCKESGDLRKHC QSFCEPLFPKKSIECLTSCEFLK YILLVKQGDCAPEKASGFAAA CVESCEVDNECSGVKKCCSNG CGHTCQVPKTLKGVPLKPRK ELRFTELQSGQLEVKWSSKFNI SIEPVIYVVQRRWNYGIHPSED DATHWQTVAQTTDERVQLTDI RPSRWYQFRVA AVNVHGTGRF TAPSKHFRSSKDPSAPPAPANLR LANSTVNSDG/AV*TVTIVWDL PEEPDIPVHHYKVFWSWMVSS KSLVPTKKRRKTTDGFQNSVI LEKLQPDYVVELQAITYWG QTRLKSAKVS LHFTSTHATNNK EQLVK\TRGGIQTQLPFQRRRP TRPLEVGAPFYQDGLQVKVY WKKTEDPTVNRYHVRWFPEAC AHNRTTGSEASSGMTHENYIIL QDLSFCKYKVTVPKIRPKSHS KAEAVFFTPPCSALKGKSHKPI GCLGEAGHVLSKVLAKPENLS ASFIVQDVNITGHFSWKMAKA NLYQPMGTGFQVTWAEVTTESR QNSLPNSIISQSILPSDHYVLT PNLRPSTLYRLEVQVLTGPGGEG
12750	43118	A	12828	1	1410	
12751	43119	A	12829	2	299	
12752	43120	B	12830	81	510	
12753	43121	A	12831	3	436	
12754	43122	A	12832	1	769	

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12755	43123	A	12833	15	413	ERMCA GPWRKGAETGPYFCND TVRHRKASLLCPF*RMNGDQN SDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFREL VEPRKQDADSLQRAWTVGWC VELLQA
12756	43124	A	12834	1	795	MNGDQKSDVYAQEKQDFFQHF SQIVGVLTEDEMGHSEIGDAIA RLKDVLEYNAIGGKYHRGLTV LVAFQELDAINYAILLEACIYYL LKLYCQAQPYLNLIELFLQISC QPEIGQTLDLITAP/QDNVDFGR FT/EKQHANA*KILLEI/GEFFQI QDGYLDLFGDPTVTRKVGTDIQ DNKCSWL VVQCLQRSTLEQYQ ILKENYGQKKAKKVQVKALY EELDLPVFLQYEEDGYSHIMG LTEQYAAPLLPAMFLGLVYKIY
12757	43125	B	12835	1	328	
12758	43126	A	12836	2	868	
12759	43127	B	12837	118	1138	
12760	43128	A	12838	100	374	KHISPALKALELPFERNLII/PLQ LLKVRILKEGEML/DI*HWFL** GMGTVQKGMPhKCYHGKTGR VYNVTQHAVGIVVNKQVK*VV
12761	43129	A	12839	1	1035	
12762	43130	A	12840	13	600	INPPPPFRPELPSSSNSPKMTDH KGERGEATRYMFSRPFKKTMG VVPLGHNN*RF\YKKGDIVD\IK GMGYCVQNGMP\HKCYPWPKL EGVLQLLPQHA\VAIVVNQPV GQSFFPRE*IVRIEHIKHF*EPEIS FLK/RVLKENDSEKERSPNEKG TWGSLNKRHLAPPQKKHTL*R TNGKEPEL\LEPIPYEFHGHN
12763	43131	A	12841	1	317	QRPSEAKEIKLYAQIPPIEKMDA SLSMLANCEKLSLSTNCIEKIAN LNGL\EA VGD TLEELWISYNFIE KLKGIHIMKKLKILYMSNNLVK DWGTPVIKGDEEEDN
12764	43132	A	12842	155	588	
12765	43133	A	12843	1	954	
12766	43134	A	12844	1	486	
12767	43135	A	12845	1	367	
12768	43136	A	12846	1	190	LISRAKEDDMTLNIAEGVHPSY NIVLNTLHT/CGISVKSTWRPSK GAAP*ARMPGGTAGPCLAS

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12769	43137	A	12847	1	2376	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFVNRDVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKIVPSILRIS SSDGKYKAFSTCGSHLAVVC
12770	43138	A	12848	1	636	MRGAQKATNVNKLSEDIQGKE ESPTQFYERLWEAYRMYTPFDP DSPENQRMIPMALVRQSAEDM RRKLQKQAGLAGMNPSQLLEI ASQVFVNRDVSRKENGKENG GQARRYADLFSRTKNYQPVQD LRLHQAKLTFHPTVPNPSTLL GFPPAEDSWFTCLDLKDAFFPIR LAPERQKLFAFQWEDPESGWPP CWRA\WQQLPC*YKKQIS
12771	43139	B	12849	180	811	
12772	43140	A	12850	1008	1265	FLGVPTLGGWRPIQHELK/PRE VTPVLLRDLIRFRPPLWIGSDN GPAFLAALVQKTAKGIQNNITG GVYTLCDIDSHILFRSGY
12773	43141	B	12851	1	996	
12774	43142	A	12852	1251	1424	DSPRGEAES*A*LPEKLLEMSG NRLVDNKDPGKKQTQRRIPHSP SQIPVPLPEIWCT
12775	43143	A	12853	1	1121	
12776	43144	A	12854	189	621	
12777	43145	A	12855	2207	2308	
12778	43146	A	12856	1	762	
12779	43147	A	12857	1	678	
12780	43148	A	12858	3	496	
12781	43149	A	12859	107	258	NALGKRTSFTNRNFLASGR LFD SVTYARRLQQYPAPL*KTAI*SF SLLNH
12782	43150	A	12860	2	410	SPDPWVSTYKSTCHIAQEAIEKI HLRNQYERKGE*AP\RSNLMSE DANGGAPNPWLFEEPEETIGW GFDEIRQQQHNIIR*QDAGLDA LSSIISRQKQM\GIEIGNELHEQN EIDDLANLMENTDEKLNETR RVN
12783	43151	A	12861	3	1402	

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12784	43152	A	12862	1	711	MAPDPWFSTYDSTCQIAQEIAE KIQQRNQYERKGEKAPKLTVTI RALLQNLKEKIALLDLLRAV STHQITQLEGDRRQNLDDLVT RERLLASFKNEGAEPDLIRSSL MSEEAARGAPNPWLFEEPEETR GLGF\DEIRQQPQKI\QEQDARL DALSSISSQKQ\MGQEIGNELD EQNEIIDDLANLVENTDEKLRN ETRRVNMVDRKSASCGMIMVI LLLLVAIVVVAVWPTN
12785	43153	A	12863	1	936	
12786	43154	A	12864	1	1023	
12787	43155	A	12865	1606	2238	
12788	43156	A	12866	3	347	
12789	43157	A	12867	1	1665	
12790	43158	A	12868	1	589	
12791	43159	A	12869	19	1677	
12792	43160	A	12870	1	906	
12793	43161	A	12871	1	228	
12794	43162	A	12872	1	320	
12795	43163	A	12873	1	398	TSKAPGAQGEQGFEECFLAVAL AGRPLPSLWALFQATTPV\LQG LKEAFFRPEVP\LRDLPLLLFR\ TQTSDPAMPL\TMIGLLAEARR AGCLSYQTSLSVSDGETWHVMG ISSLLP\SLEG\WKQ\HVTEAFQF HF
12796	43164	A	12874	3	322	SAGGSGRRTLHSRTMAQFVRN LVEKTPALVNAAVTYSKPRLAT FWYYAKVELVPPTPAEIPRAIQS LKKIVNSAQTSFKQLTVKVTT G*MK\TDVHNRKCLPLGFF
12797	43165	A	12875	91	425	WTFHPTMAPFVRDLGEKTPA LGKAAVITYLKPRLA AFWYYH\ QVELVPPTPA\EIPRAIQSLKKIV\ NSAQTSFKQLTVKEA\LLNDL VATEVSTWFYVREITGKRGIIG* NV
12798	43166	A	12876	179	664	HSSPAVPGRTDFSHSQNPWPQF CPVTLVGEDPRALVNAAVT/YT RKPRIGLHFWYYA\KVELVP\PT PAEIPRAIQSLKK\VNNSAQGT LANSSHVKEAV/L*NGLVATEV\ LMWFLCERLLGKRHSLGYG CFEDQSFNIWIFWILFILELFVW DHVVDPC
12799	43167	A	12877	25	164	
12800	43168	A	12878	2110	2260	
12801	43169	C	12879	32	1429	
12802	43170	A	12880	172	322	

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12803	43171	A	12881	1060	12039	
12804	43172	A	12882	1	810	
12805	43173	A	12883	3	146	
12806	43174	A	12884	1	1211	GPQDGNQQPAPPEKVGWVRKF CGKGIFREIWKNRYVVLKGDQ LYISEKEVKDEKNIQEVFDLSD YEKCEELRKSKSRSKKNHSHKFT LAHSHKQPGNTAPNLIFLAVSPEE KESWINALNSAITRAKNRILDE VTVEEDSYLAHPTRDRAKIQHS RRPPTRGHLMMAVASTSTSDGM LTLDLIQEEDPSPEEPTSCAESFR VDLDKSVQAQLAGSRRRADSDRI QPSADRASSLSRPWEKTDKGAT YTPQAPKKLTPTEKGRCASLEEI LSQRYAASAHTLQLRAEEPPTP ALPNPGQLSRIQDLVARKLEET QELLAEVQGLGDGKRKAKDPP S/RSPDSESEQLL\ETER\LLG EASSNWSQAKRVLQVREL RD LYRQ\MDLQTPD\SHLRQTTPH S\QYRKSLM
12807	43175	A	12885	617	1041	TTLINPGGPAPLLSLPTSSITGFT TFYHPNLKPLRTCPS*VQAWPC RHPI*SRDYQRDAEPTTCISKLL GENIRRDEFWKVQIKARSGETE QNPRSTAFAGELPLANREELN LLLNKGILPLCDQRQEIESECAF TIFCAGDANCFPPSPHTLPLTAL QQRPCGLSGSASKEAWGNSLV CGPRGDTLPMAIAKPHRSASKH STLHQYPTPPRSLCHQHRDEQP TNHLQTLNTIPAWIHTKWVPG DHINKPWRSCTSSQSAYLFYHW LHYFLPPKLKTSKDLSILSAGLA MSAPHLIFRVSATSNSSCKPSS TSKACEELFKEHQCLGSTDPIH IQGGAPFSAVSPQRLVLRGSQD GSHMVRPRLPFPDSAGLANFHL FSKLFLD
12808	43176	A	12886	1	606	
12809	43177	A	12887	174	350	VSWRFVQVFI*V\AGGSRICAAA GLSPGTPPPCATSLIGACSLIFIP RLLSLFCGDEAL
12810	43178	A	12888	3	265	
12811	43179	A	12889	1	1209	
12812	43180	A	12890	53	369	VAHQEKGIAEPGLRPTGDSRQT HRRLDVERSTSVQEHMGGCHF SPPEREKLSTLRGIHQQAPAL WQATDQWIDIEF/GLGQPEESL GR*ITRLQGKTLFPFGSPIC



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12813	43181	A	12891	1	345	
12814	43182	A	12892	2	451	
12815	43183	A	12893	2	286	
12816	43184	A	12894	217	1071	GENPRSENTRLATILEVACCHF GSSPPPS\GSSGRKDPPLTFGDH EGTСКАEPPALGLTPEHKGNV GHAARIQQPGPLSLWSRKAGK GVQDCYIDLKQIKIDLDKFSDN PDGYIDVLQGLGQSFDLTWRNI MLLLNQTLTPNERSATITAARE FGDLWYLSQVNDRIAAEKREK FLTGQQA VPSVGSHWDTSEH GDWCCRHL L TCMLEGLRKTRK KPMNYSMMSTITQGKEENPTA FLERLREALRKHTSLSLDSIEGQ LILKDTFITQSAADIRK\NFKSPP
12817	43185	A	12895	1	756	
12818	43186	A	12896	473	1015	
12819	43187	C	12897	152	322	
12820	43188	A	12898	146	1079	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRNVNRAA SNASVSLSTVTLFSRLS*PQRKG SELLDSSGPLPASPLPLCSGVS PRAGLGSAPKIPFLGIREAKN PRSENTRLATILEAGHRHLGTS VSKDHPVTFWRPRDLQSDLK QIKIDLGKFSDNPDGYIDVLQEL GQSFDLTWRDIMLLLNQTLTPN ERSATITAAREFGDLWYISQVV AAVAGLVSEAVKIIQGSYCVDI HDVNGILTAKGDLWLSDNHLL KYQALLLEGPVRLRLTCATLNP ATFLPDNEEKIEHNCCQVIAQT
12821	43189	A	12899	189	1798	

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12822	43190	A	12900	194	1729	NPAAQTPFFVVKGGKRGAGL LHRQYPLRLEAKQGLKKIVKDL KAQGLVTPCSSPCNTPTLAVQK PNGQWRLVQDLRIINEAVVPLY PAVPNPYILLSQIPEEAFTVL DLKDAFFCIPVHPDSQFLAFED PSNPMSQLTWTVLPQGFRDSLH LFGQALAQDLSQFSYLDTLVLQ YMDDLLLVTHSETWCHQATQA LLNFLATCGYKVSQNAQLCS QQVKNLGLKLSKGTRALSEERI QPILAYPHPKTLKQLRGFLGITS FCRIWIPRIKAVKLQIILQMEPQ MQSMTKIYHGPLDRPTSPSSNV NDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLGKFSDDPDGYIDVLQ GLGQPYLTTWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTSEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
12823	43191	A	12901	1	642	
12824	43192	C	12902	54	254	
12825	43193	A	12903	32	221	NGVGHNRMGTNGSGGGGEWGP PAPASA*GCSLASAFASASPRW WFEMGCRGIYDAQQVALSRSF
12826	43194	A	12904	203	538	
12827	43195	B	12905	131	536	
12828	43196	A	12906	1	1251	
12829	43197	A	12907	38	475	ESERRGEFCLCKIIEQGRAVCV EDEQTSHFALTGNNGIYRKSQQ QWQQELSDLARDPPAQCSAGP VGDDMFHWQATIMGPNDSPYQ GGVFFLTIHFTDYPFKPPKVA F\TTRIYHPNINSNG\SI CLDILRSQWSPAFNQFPKSS
12830	43198	A	12908	282	849	QSCPAAGIIKSFGRTFEHTPREV RKPDDKHTLLALKRINKDLSL ARDPPAQCS\AGPV\GDDMFHW QATIMG\PNDSPLYQGGVFFLT IHFT\DYFPKPP*GLHFTTRFY\HP \NINSKWAAFCLRYS*DSQW\SP ALTFKVLLS\CSLL\CDPNP\DA DPLVPGDWHGSY*NRTGDKYN RISREWTKQYAM
12831	43199	A	12909	1	397	
12832	43200	A	12910	245	535	
12833	43201	B	12911	68	333	
12834	43202	A	12912	265	562	

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12835	43203	A	12913	1	872	MVNTECQLDWIEGCKVLILGVS KEASQGLGGRSRGRNVRQSTD ADIRPTSEKDARSLMTTRQEDN ISVDQRGFLSGVQKKSGCANG KGSVCGGFYWMAVIRMGVG KAMGLNLKLGIKFEIKKGYLKG CRDSLRLSPTGFGKFTATSHEV AATVPIKVVLTLQTHKILRG VFAHLTSCLQLHSLPPGSSMDS AKARRQLQVAGQGHSLVKQK GFHVEAPDHPVQLSDISCKSY RWGHKLIKINFLIPLWYYDL EEVKREQSEEKQQAIMADIIG DALNAQKAFKGNPKGHKPLPF SAGQMENW*CPECPSI
12836	43204	A	12914	7	231	
12837	43205	A	12915	1	223	MEILTTCDKGLIFTGNTRKSETS TSECTCPLDINCSLHSPSPSDE ETQHHTDSLHVRPRKGYLLCIY HIPDIVAVMVNIQCQLDWIEGC KVLFLGVSVKVLPKEINTGISGL GKADPPSIWKS*QHVTKDLYLQ VILENQLV PANALVRWILTVP FPTLLRALQMRKHSTTLTVCMS DRGKDIYCASTIYQI
12838	43206	A	12916	1083	1273	NKMSFKLKEDCFGRSKCNL*T* CWKSINEA*K/DLELQLQFGPQE KLFALEQQVKKKLNLPDA
12839	43207	C	12917	1	1506	
12840	43208	A	12918	3	1219	
12841	43209	A	12919	1	735	
12842	43210	A	12920	2	94	
12843	43211	A	12921	362	460	WLILSVNLIGLKDAKYCSCVCL *GCCQRRITF
12844	43212	A	12922	1235	1474	
12845	43213	A	12923	1	250	
12846	43214	A	12924	1	261	
12847	43215	A	12925	2	85	
12848	43216	A	12926	1	291	
12849	43217	A	12927	1	321	
12850	43218	A	12928	1	370	
12851	43219	A	12929	1	684	
12852	43220	C	12930	1	210	
12853	43221	A	12931	2	91	
12854	43222	A	12932	1	243	
12855	43223	A	12933	2	353	WMKLETHLSKLS*GQKTKHRM SSLIGSTDQQRLVVKNVQGRVC PGSTGHGAWEAWTAMRKVDS PLQTGSLRPGWCRQVGSHARS GSAEAAGNPGLHPGICPRVEDG IQVAENFPEV

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12856	43224	C	12934	1	289	
12857	43225	A	12935	1	1194	
12858	43226	A	12936	140	237	
12859	43227	A	12937	1	292	
12860	43228	A	12938	2	178	
12861	43229	B	12939	1	1245	
12862	43230	A	12940	2	241	
12863	43231	A	12941	1	675	
12864	43232	A	12942	1515	1920	TPTNLQEKNKQPHQKVGE GYE QTLLKRRHLCSQKTHGKNAHH HWPSEKCKSKPQ\WIPSISHQLE WQSLKSQETTGTWWMKLETIILS KLLQGQKTKHHMFSLIGGNRT RRTHGHRKGNITLWGLLSDSV NCASSSG
12865	43233	A	12943	608	891	
12866	43234	A	12944	1	3956	MGSCPGGFTAEFYQRYKEELVP FLLKLFQSIEKQGTLPNSFYEAS IILIPKPRDRTTKKENFRPISLMN IDAKILNKILTNR IQQHKKLIHH DQVGFIHGMQGWFNIRKSINVI QHINRTNDKKHMIISIDAEKAF DKIQPFMLKTLNKLGTWWMKL ETILSKRSQGQKTKHRMFSLIV NIPTIKILIKQNMETAMETLCPIF KLEGDTMDNPIANRRVRTAVP TSVVCLHVGTEPEARLPHGPMI TAQSPFG
12867	43235	A	12945	1	855	
12868	43236	A	12946	1	255	
12869	43237	A	12947	273	3484	
12870	43238	A	12948	3	377	
12871	43239	A	12949	85	333	
12872	43240	A	12952	22	308	
12873	43241	B	12953	30	383	
12874	43242	A	12954	3	448	
12875	43243	A	12955	1	453	
12876	43244	A	12956	3	491	
12877	43245	A	12957	2	749	
12878	43246	A	12958	155	637	
12879	43247	A	12959	1	510	
12880	43248	A	12960	2	559	RPHASAHASGRQRSQDVTTMV WALLLLTLLTQGTGWSAQSA TQPPSASGSPGQSITISCTGLIND VASYNFVSWYQQHPGKAPKL MIYEVTKRPSG\VPDRFSGSKSG \NTASLDHLWGSRLDEADYYC LLICRRLHPGGGIRRWDPRTV LGSAQRPTPTVTSGSRPSSEGAP SQQGHTSVSDQ

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12881	43249	A	12961	1	1958	MSVQRKDRVRTQQGGSVASSM LTQEPVGSVALGQSARDRDPD CSDSVSVYLMDTWQSVIIGFAE SAATLGDPPELPMHPEGSEASY ELTQPPSVSVSPGQTARITCSGD ALPKQYAYWYQQKPGQAPVL VIYKDSERPSGIPERFSGSSSGTT VTLTISGVQAEDEADYYCQSAD SSGTYPTVTQADRETPTHQYSR HPSYAKGFVFLWGSWAQSALT QPASVSGSPGQSITISCTGTSSD VGSYNLVSWEYQQ/PQKAPKL MIYE/VDSKRPSGVSNRFGSGKS G\NTASLTISGVPLRDEGVDYY CCSYAGSVASYELTQLPSVSVS PGQTARITCSGDVLGENYADW YQQKPGQAPELVIYEDSERYPG IPERFSGTSGNTTTLTISRVLTE DEADYYCLSGDEDNPSVTQAD GEDTGIRSHYEGTLALYLYPEP VKATCSVTSYVLTQPPSVSVAP GQTARITCGGNNIGSKSVHWY QQKPGQAPLVVYDDSDRPSGI PERFSGSNSGNTATLTISRVEAG DEADYYCQSLSTLGPCTLGDTV LRPMIYSVSIQASGVPDGFSGSK SGNTASMTISGFQAEDEADYYC NSHRRGSVVSELTQDPAVSVA LGQTVRITCQGDSLRSYYASW YQQHPGKAPKLIYDGH
12882	43250	A	12962	2	367	
12883	43251	A	12963	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFDTKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12884	43252	A	12964	2	1178	
12885	43253	A	12965	1	732	
12886	43254	B	12966	99	716	
12887	43255	A	12967	1	1011	

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12888	43256	A	12968	3	1263	GRTIQTGKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRSLRSQCDQLEERVVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQRQRTQPQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
12889	43257	A	12969	1	1392	
12890	43258	A	12970	1	1224	
12891	43259	A	12971	1	970	
12892	43260	A	12972	1	954	MDGDLHKGVAVFWPPDAAGG HTCCRSMVCRSLLGGAQWKFH SFRCCRIRFELILHMIQERNINIS QKDVHTETPSETHHHQRPKVD KSMKMRRNQCKKAENSKNQK ASSPPKEHNSWRAREQNWTEN EFDKLTEVGFRRWVITNSSELK EHILTQCKEAKNLEKTLEELLT RITSLEKNINDLMKLKNTA*EL REAYTSINSQISQAEERISEIEDQ LNEMKHEHRIREKRMKRKNQS FQEIWDYVKRPNLRLISVPESD GENGNK*ENILQDII\QENFPNL ARQANIQIQEIQRTPQRYSSRRA TPRHIIVRFTKV
12893	43261	B	12973	1	1346	
12894	43262	A	12974	1	318	GSRGELLLSLCYNPSANSIIVNII KARNLKAMDIGGTSDPYVKVW LMYKDKRVEKKKTVTMKRNL NPNFNES\FAFDIP\TEK\LETTII ITVMDKDKLSRNDVIGK
12895	43263	A	12975	17	389	SWGPHCTHKLKKSFSLMPMT DAMDRERM/RGSKKDV/R*VLG GCAATWTPRAGGRQQSPGTTV DKREDTPDCAMCDQSTSHPIA SSPSLLPGSSFTTQTFPPGIAHYR ASFLIVAYYPSNKNK

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12896	43264	A	12976	84	282	GEGQVGWPPQGEVQQDEEVIEE VGA*DAGSGYQEEEEGPQSLRR EVVGVELVVGADPSGEGPKED
12897	43265	A	12977	1	1179	
12898	43266	A	12978	3	634	
12899	43267	A	12979	234	619	CYVVQEVLPSSLCHCLVICSRP GRTAEWPPG*GF*SPPHRGWW GC*GHD/HRRGTSIFPTH/V*SPP ASYPGSLCRPGGQEEREREGEW QREGRRPGTR*CGAEAEARGW RAAAKATAVAGARNRRPGISG
12900	43268	A	12980	1	1182	
12901	43269	A	12981	3	763	
12902	43270	A	12982	32	949	
12903	43271	A	12983	1	1299	
12904	43272	A	12984	1	1176	
12905	43273	A	12985	1	421	
12906	43274	A	12986	81	404	VKFGPEIWCRDSDQGRGGVGT SLGRSIPCPPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPEPLELWPKAL*LTPSQIY SA*RLKTDAAARLPRKPPR
12907	43275	A	12987	1	378	
12908	43276	C	12988	1	751	
12909	43277	A	12989	302	629	ICLSYPAPPCKRFPHYTRVLYH* SLFNENTSQSCFTSR/WKLESFT TRAIERHQIPLL*ATLTLIRWLD KKLAFQLLSLTASFSPSYQSLPP TPPLKLPIISSHTRQMV
12910	43278	A	12990	14	380	
12911	43279	A	12991	189	608	QSDLSASQHGFLPLATEVRSSG AASCPDSDSICPAPTAPGRATP PQANCWASEGTLRYQALPGNR APVSQVSQAGGANLCVQQPKK HLTNFKSGKRPLFTLFSNLQGP RSRPVAFLSKQLDLTVLGWPSCL LVQQLLPP
12912	43280	A	12992	1	513	
12913	43281	A	12993	2	462	WSMGLPRRSGCVSLQPLSQEDL GRSQSESLGPEFQGLWEWLPEQ LPRSFQALGSLSYFPRTL MNLS WPLCLRKWGYL/SLYLPFQVGL PSTVPWPLILPSKVPEEEGQLQS TLPCGIKLLPVFTSHHAF LGVFC NQWVSDVFLALFLMKLLGAQ
12914	43282	A	12994	59	213	
12915	43283	A	12995	1	1159	
12916	43284	C	12996	1	864	
12917	43285	A	12997	1	1155	

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12918	43286	A	12998	879	1163	SRRPLFMGLVRVLCKMSGRGP LCFPGGHWIVFLWGGTVLWLW T*SPHWHRKAN*DLFLQKLPRL *VSHQCDPCLPVCHLWNCLFLL PLWGPPAG
12919	43287	A	12999	1	179	
12920	43288	C	13000	1	410	
12921	43289	A	13001	42	365	FGLRLSLAPPFCMFPLTT*HS*P SVLPASFPAAALGIPQARAVTPFV SP*LLASLSFWAPPCSLCLDASV *HGSHLWHAQSSCRLRWSFGL AASQMQPEEP SHGPRRK
12922	43290	B	13002	1	741	
12923	43291	A	13003	8	265	
12924	43292	B	13004	1	646	
12925	43293	A	13005	1	1158	MKLVTIFLLVTISLCSYSGYWPE NEQMSVGGGDDNGEVLVSALR GASEVIGQCQSSATKPRRSCKE SVREPWARVPGALGVGVREID QTLGIDTILCHHHERLLQSHYGI HKSSLMSVGNSQVAALYQLNV YVVDVTVGLIISNSILDSVQPN YCSNKHIELRTQVGGARNLRA NSPMTSSYNQESSMENVSALS LLTVESPTSMFDYCDLSLERVK SALDIFSMIITYVTFFLAGNG LVIWVVGFMSTVNTCLPSDP HLHGPLTCDPVANLVLEQLHTS KGNSGALEDLAFGNLFLCSLLD LQGNSSWWKVSPSLYNQYDLQ NETQGSQHLWKEIIPW*PSAFV V/SSGYWPENEQMSVGGGDDN GEV/RVFRPEGGRGDRAVSFV SH*AEKIWEGISQAL/VPEFQG LWEWV/CREIDQTLGIDTILCHH HERLLQSHYGIHKSSLMSVGNS QVAALYQLNVYVVDVTVGLII KSNSILDSVQPNYCSNKHIELRT QVGGARNLRANSMTSSYNQE SSSMENVSALSLLTVESPTSMF DYCDLSLERVKSALDIFSMIITY VTFFLAGNGLVIWVVGFM SCTVNTCLPSDPLHGPLTCDP VANLVLEQLHTSKGNSGALED LAFGNLFLCSLLDLQGNSSWWK VSPSLYNQYDLQNETQGSQHL WKEIIPWHQTLVTTAHFFGFF



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12926	43294	A	13006	3	371	AGARFNVRSH*RNDRVVRPHRD VYSLQGRSLSDHSPTFQGCQTQ GRLPWSFTLSGKFRFSGEGATT SPAHKNFQTPEPQWGPPEPPP TGACYTCRKSGHWAKECPQAR IPPKPHPICVGPH
12927	43295	A	13007	77	332	RWKKNCLSPRMS*QR*WKP* MQQAACSVGETQPPCTQVK*T ALLLTQSLFGGLFTRTHMKFGA VTRIGGPPLGDQSPVLLLFAP
12928	43296	A	13008	1048	1349	RVVEQDDAERLFRRFRAA/GDL PYGAFGEIF*ETQCQEMQQLAE DHASVTMISLEAWRLYRKMVC RIWASMLRLSVCHLCAPKRVW SLISRNGYHLPFSIH
12929	43297	A	13009	213	499	PEQRTSHRQQRRQPPQSRS*P FCPSLPRSALSFLCDGYAAP* AYRE*IPVTEDHFAE*I/ISWCPC *YREALGQLLAKMRR*SARKRF QLSP
12930	43298	A	13010	2	431	
12931	43299	A	13011	2	367	
12932	43300	B	13012	1107	2083	
12933	43301	B	13013	1	627	
12934	43302	A	13014	712	2671	AHVGRGST*ALPRAMGSDAF*C PLQ*MTPASFGSKAALS RVFIKE ALMMEDPCVVRKPLSAHMTA WWCRIWKAYLESV
12935	43303	A	13015	50	1362	WEQIPHGLVLSLQQLPRRSGSIS LQPLSQEDLGRSQSESLGPEFQ GLWQWLSDFQT*HQWFVSGFQ AFSDRLKAALSASLLRFGDSD WLPSSACKCLMLGLHFVIVGN ICATLKEKYSSMLHLDVTMCK NGEKRTLQKRKKGMPPHPAY EDLNIAAITLPANVVLHQPSGFR TSGQLDPVWWSLDTDAHEIWC QDPGLGSGDFPWEITPLSSYSLL HEKDPPTTSGPQTDQPKKHLTN FKSKTKETGFIHGPKTPAPVTD WEGSLPLVFNHCRDTSIIHPCF KGVRRRDACLGPSPLAASPAF LEKGQDLINLAFKVYNNRKKL QFLASTVRQTPATSPAHKNFQT TEPQQPGVPPEPPPTGACYMCR KIWPLGQANARSPGFLLSRVPS VWDPTGNRTVQLTWQPLPEPL ELWPKALCLTDSFPDLLGLAA
12936	43304	A	13016	1	507	
12937	43305	A	13017	5	271	
12938	43306	A	13018	1	618	

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12939	43307	A	13019	1	429	
12940	43308	A	13020	1	3567	
12941	43309	A	13021	1	353	
12942	43310	A	13022	1	338	
12943	43311	A	13023	1	1175	
12944	43312	A	13024	3	326	
12945	43313	A	13025	150	494	PSPSLGYLVGTRGTALRL*DAR AAMRPFDPSTLLPTCWDYWTY AGSLTTPPLTESVTWIIQKEPVE VAPSQLSAFRTLLFSALGEEEEK MMVNNYRPLQPLMNRKVWAS FQATNEG
12946	43314	A	13026	2	975	DSREHHPLQTGVSGNRPKMLG RNTWKTSASFSLVEQMWAFLW SRSMRPGRWCSQRSCAWQTSN NTLHPLWTVPSVPGGTRQSPI NIQWRDSVYDPQLKPLRVSYE AASCLYIWN TG YLFQVEFDDA TEASGISGGPLENH YRLKQFHF HWGAVNEGGEHTVDGHAYP AELHLVHWN SVKYQNYKEAV VGENGLAVIGVFLKLGAAHQ LQRLVDILPEIKHKIDARAAMR PFD PSTLLPTCWDYWTYAGSLT TPPLTESVTWIIQKEPVEVAPSQ LSAFRTLLFSALGEEEEKMMVN NYRPLQPLMNRKVWASFQATN
12947	43315	A	13027	1	1233	
12948	43316	A	13028	761	1000	IPFISFSCIALARTSNTMLNKSG ERGHPSLVPVFIGNASSFCPVSM ILAVGLS*IALIILRYVPSIPNLLR VFSMKGC
12949	43317	B	13029	697	1527	
12950	43318	A	13030	1	1695	
12951	43319	A	13031	434	925	VAKIFSHFVCCFLTMLVVSFAV QKLFSILRSHLSILSFVAIDFGVL DMKSLPMPMS*MVMPRFSSRV FIVLGLTFKSLIHLELIFV*GVRK GSSFSFLHMASQFSQHLLNRE SFPHCLFFSGFSKIR*L*ICGIISE GSVMFH*SISLFWYQYHAVLVT VAL
12952	43320	A	13032	1124	1234	KITPKKQIRQSPNLTQNTGQQ*S LQLWEHFQISTHF
12953	43321	A	13033	929	1261	
12954	43322	A	13034	1118	1354	IPFISSCLIALARTSNTMLNRSGE RGHPCLVPVFKGNASSFFPFMSI LAVGLS*IALIILRYIPSIPSLLRV FSVKGC

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12955	43323	A	13035	2	348	HQHLLFPDFLMIAILTGMRWYL IVVLICISLRASDDEHF/YHVS GCINVFF*EISVHILRPLFDGVV* FFLVNLFKFFVDSGYEPFVRWV DCKNVLPFCRLPVHSDGSFFCC AEAL
12956	43324	A	13036	578	712	LISNFSKVSQYKINVPKSQAFLY TKNRQTAKS*VNSHSQLQRE
12957	43325	A	13037	1	1833	
12958	43326	B	13038	1	1587	
12959	43327	B	13039	1	1851	
12960	43328	A	13040	1349	1444	
12961	43329	A	13041	953	1277	MVLPRFSSRVFMVLGLTFKPLI HLELIFV*GVNFV*GSSFSFPHM ASQFSQHLLNRESFPHFLFLSG LSKIR*L*MCGIIEGVSFLHWS ESLFWYQYHAVLVTVAL
12962	43330	B	13042	804	4236	
12963	43331	A	13043	1	744	
12964	43332	A	13044	137	797	
12965	43333	A	13045	210	418	
12966	43334	A	13046	1	927	
12967	43335	A	13047	1	1415	MGFLGTGTWILVLVLPQAFPK PGGSQDKSLHNRELSAERPLNE QIAEAEDKIKKTYPPENKPGQ SNYSFVDNLNLLRAITEKEKIEK ERQSIRSSPLDNKLNVEDVDST KNRKLIDDYDSTKSGLDHFQ DDPDGLHQLDGTPLTAEDIVHK IAARIYEENDRAVFDKIVSKLLN LGLITESQAHTLEDEVAEVLQK LISKEANNYEEDPNKPTSWTEN QAGKIPEKVTPMAAIQDGLAK GENDETVSNTLTLTNGLERRTK TYSEDNFRDFQYFPNFIALLKSI DSEKEAKEKETLITIMKTLDIV KMMVKYGTISPEEGVSYLEGL DEMIALQTKNKLEKNATDNIS KLFAPSEKSHEETDSTKEEAA KMEKEYGSLKDSTKDDNSNPG GKTDEPKGKNRSPWKPPIRKN EWLKKHDKKGNKEDYDPFQR* EVSFNNKADAIYVEKGILDKEE AEAIRIYSSL
12968	43336	A	13048	1	879	
12969	43337	A	13049	3	640	
12970	43338	A	13050	134	382	DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMN/WPPH*IKHIQS
12971	43339	A	13051	87	500	

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12972	43340	A	13052	1	1356	
12973	43341	A	13053	1	447	
12974	43342	A	13054	3	107	
12975	43343	A	13055	3	2377	
12976	43344	A	13056	1	2193	
12977	43345	A	13057	1	2724	
12978	43346	A	13058	253	490	QSSIPAIMSSFLGTGAETMPVPL GAGMRRTSTEPQRVCFTGIIF KTSSLREAPRKSMISDSLMGR E/WMPV\TKLGRLVKDMKIKSLE EIYLFSLPIKESEIIDFFLGASLKD EVLKIMPVQKQTRCGSVLVRLI PAPRGTGIVSAPVPKLLMMA GIDDCYTSARGCTATLGNF/AK ATFDAISKTYSYLTPDLWKETV FTKSPYQEFTDHLVKTHTRVSV QRTQAPAVATT
12979	43347	A	13059	1	819	
12980	43348	A	13060	1	623	MARRKNGKWESEIIDFCLGGSL KDEVLKIMPVQKQTRAGQCTR FKAFVAIGDYNHIGLGIKCSK E/LATAIRRAILAKLSIVPVCRG YWGNKISKPHIVPC\RG TGIVSA PVSKLLMMASINDCYTSARG CTAILGNFDKATFDAISKTYSYL TPNLWKETVFTKSPYQEFTDHL VKTYTRVSMQSTQAPALAKLP RVAVQPRAEV
12981	43349	A	13061	1	949	KWRITPVPTGRP/GGPGGPGMG KPRCF/RGEVFGIVIRAGSPGPG TGPGRG\GEAAGAKAED*E\WM PV\TKLGRLVKDMKIKSLEEIYL FSLAIKKSEIMSFLLGGLLSRDE VFE*LCPVQEQ\TRAGQ/RATRF KAFVALTTLTGTTNG\HVGLGC* VPPREVATGNSWGPFILGQALH SSPVRRGLLGGTKNSAKPPTLV PWQR*PRAACGLCAGYAFIPLQ PRGQLASVSA\VPV\KLLMMA GTDG\CNNSQRRGCTATVG\NL AKATTFDAISKTYSYLTPDLWK ETVFTKSPYQEFTDHLVKTHTR VSVQRTQAPAGATT
12982	43350	A	13062	92	265	SFELFADKVPKTA/WLDGKHVV FGKVKEGMNIVEAMERFGSRN GKTSKKITIADCGQLE

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12983	43351	A	13063	2	797	NRVLLAMVNPTVFFDIAVDGEP LGRVSFEVRGLDTKK*LLI*SIK LC*QIG\LFADKVPKTAENFR/A L*SIEEKGFGL*GVPCFHRLFP VLCVRGGDFHTAINGT\GGKSI\ YGEK\FEDENF\MLKHTGPGILSH GKMLDPNTNGSQFFICTAKT\VE WLDGKHV\VFGKVKEGMNIVE AMEA\FGSRDCKTSKKITIA\DF GQLRIKFDFVFLSLTTKIISFCAL LSGEHPLHPIWLGVILESMWLS LAVPFWVPCFPCSLPCLAGLQS
12984	43352	A	13064	1	720	
12985	43353	B	13065	98	2074	
12986	43354	A	13066	596	841	
12987	43355	A	13067	66	326	
12988	43356	A	13068	1	441	
12989	43357	A	13069	2	325	WCPSQAAAAGARATRDMPGEGS MTCLCRALWWLFSWLKVHR*R QGQQGRPAAPSAGPAKPTPTRN SSWLLLAAPVPTRTSPSTPPCKL REPAPALASPERGSHSAAVG
12990	43358	A	13070	38	1066	
12991	43359	B	13071	1	324	
12992	43360	A	13072	2	680	
12993	43361	A	13073	2	165	
12994	43362	A	13074	1	1110	MASLLKSARPQTHWKEETPETS KRLKEQTPDIPSLRAVTLIAKVH SFIPEVCETKNPLEGIHSGHILAP NVGPSPSRRQARVQVFENVSVR ATKSDLPQSSLWSRRKTTVSAA ASKKTSKEISKGPQKPPGY/PVT SPSSCRGRGIWPNP/EYMSTSPS LI*/SIKVDLGKISDDPDRYIDV LQGLGQTLDSLWRDVMMLLDQ TLAFNEKNAALAAAEFGDTW YLSEVNDRMTAEERDKFPTED GEPIKDCQQIIVQTYAAQDDIL EVPLANPDLNLYTDGSSFVENG IRRAGYAIVSDVTILERPNLFRA IQQVVKACEVCQRKNPLVHPP NYLYKTLNLTHSLNQSNSPSLA NDCWLCSSLSVSAEPYN

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12995	43363	A	13075	450	1776	RGGRACLRP*AA/SPGPSTP*WP PPRGVQAAAILSGPPRPAPPKG AASQRLCGGFVEARQAWVGRR GGRRGPVGETQPPPSVIQPPSRG AG/PRDQQPAMPEPPTPSVGSC AARASQISAAPCSTAPSPIDHPR AEECRRTVWDWQAAPPAAQV RDPLGEASWAPESGGDVENLY VLLRDCKYTSQHPVSSSGSVNA PIDTLYLATLLRDCKYTNRHSV SSSRFVNTPISTVSSEFANAPID TLHLATLKEETPNTSEHQEQT PDMPLRTVTVTARVRGFILDV SETKNPPIPDTFWRPRWDLRQS PSNQTLAFNEKNAALAAQEF GDTWYLSQVNDGMTAEERDKF PTEFIPSSGFLVLLTSRMKPQTF AASVTALKDGVSRVCSFRCVQS FFLPSADWCYKPLARYRALIG AFLQSAHWCVYKPLARHSVLI GAFTNL
12996	43364	B	13076	1	1999	
12997	43365	A	13077	3	469	
12998	43366	A	13078	224	410	
12999	43367	A	13079	478	675	
13000	43368	C	13080	55	237	
13001	43369	A	13081	109	239	
13002	43370	A	13082	2	88	
13003	43371	A	13083	2	178	
13004	43372	C	13084	278	460	
13005	43373	C	13085	50	217	
13006	43374	A	13086	3	251	
13007	43375	A	13087	1	759	
13008	43376	A	13088	2	604	
13009	43377	A	13089	1	558	
13010	43378	A	13090	3	1055	
13011	43379	A	13091	1	466	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQLISNFSKVSIGYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILPK
13012	43380	A	13092	2	848	
13013	43381	A	13093	458	625	
13014	43382	A	13094	482	745	

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13015	43383	A	13095	1	742	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIWHINRTKDKNHMIISIDAE KVFDKIQQPFMLKTLNKLIGDG TYLKILRAIYDKPTANIILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLGKE EVKPSLFADDVIVYLENPIISVQ NLLKLISNFSKIKYLGQLTRNV KYLFKENYKSLLEIKEDTNK WKNIPCSWIGRINIVKMAILPK
13016	43384	A	13096	1	1458	
13017	43385	A	13097	2	1624	
13018	43386	A	13098	1	1095	
13019	43387	A	13099	1	2913	
13020	43388	A	13100	2	1887	
13021	43389	A	13101	1	972	
13022	43390	A	13102	1	873	
13023	43391	A	13103	1	1365	
13024	43392	A	13104	1	867	
13025	43393	A	13105	1	591	
13026	43394	A	13106	1	990	
13027	43395	A	13107	1	2109	
13028	43396	A	13108	1	843	
13029	43397	A	13109	1	1203	
13030	43398	B	13110	1	1221	
13031	43399	A	13111	1	1092	
13032	43400	A	13112	1	931	
13033	43401	A	13113	1	1293	
13034	43402	A	13114	1	544	
13035	43403	A	13115	3	718	
13036	43404	A	13116	693	1397	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMFTFFTELEKKNWLAI CRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKAKRA SAQQKKLPSE
13037	43405	A	13117	1	2814	
13038	43406	A	13118	1	1302	
13039	43407	A	13119	1	1542	
13040	43408	A	13120	3	1327	
13041	43409	A	13121	1	1023	
13042	43410	A	13122	1	1448	
13043	43411	A	13123	1	1038	
13044	43412	A	13124	3	1711	

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13045	43413	B	13125	1	1756	
13046	43414	A	13126	1	923	
13047	43415	B	13127	1	1515	
13048	43416	B	13128	1	1560	
13049	43417	A	13129	1	4032	
13050	43418	A	13130	1	2684	MVKGSIQQEELTILNIYAPNTG APRFKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLS DHS AIKLELRIKNLTQSRSTPWKLN NLLLNDYWVHNEMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKETQKTLQKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DTFLDITYTLPRLNQEEVESLNR PITGSEIVAIHNSLPTKKSPGPDG FTAIFYQRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTKNRQTESQLMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYR FNAIPIKLPMFTFFTELEKTTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIIPHIYN HLIFDKPEKNKQWGKDSL FNK WCWENWLAICRRLKLDPFLTP
13051	43419	A	13131	1	1149	
13052	43420	A	13132	127	329	
13053	43421	A	13133	1	1132	
13054	43422	A	13134	1	1020	
13055	43423	A	13135	803	2009	
13056	43424	A	13136	1	1944	
13057	43425	A	13137	1	1282	
13058	43426	A	13138	1	2423	
13059	43427	A	13139	1	2694	
13060	43428	A	13140	1	1195	



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13061	43429	A	13141	6082	6984	KLAQDRDALSPLLFNIVLEVL ARAIHQEKEIKGIQLGKEEVKLS LFADDMIVYLENPV\SAPKSPL RLISNVSKV*GYKINVQKSQA FLYTNNTDKQESQIMSELPFTT ASKRIKYLGIQLTRDVKDLFKE NYKPLLKE\IKEDTNKWKNIPCS WVGRINIMKMAILPKVN\YRFI NSMPSIPIKL\PMFTFFTELEKNYF KVHMEPKKSPHCQVNPKTKEQ SWRHQRYLTSNYILQGYSNQK STISMVLVPKQHGTGTKEIIDQ WNRTEPSEITPHIYNILFDKPL LEKNKQWGKGFP
13062	43430	A	13142	193	335	MVEEKLTLPKDEK*KSKQRSIY RKTLQELKNKNEKRNRKNKW QVKTH
13063	43431	A	13143	131	427	
13064	43432	A	13144	1	360	
13065	43433	A	13145	2	376	
13066	43434	A	13146	1	360	
13067	43435	A	13147	2	376	
13068	43436	A	13148	3	469	
13069	43437	A	13149	224	410	
13070	43438	A	13150	478	675	
13071	43439	A	13151	32	161	
13072	43440	A	13152	1	1671	
13073	43441	A	13153	1	1656	
13074	43442	A	13154	62	1295	
13075	43443	B	13155	149	320	
13076	43444	A	13156	12	89	
13077	43445	A	13157	28	417	
13078	43446	A	13158	2	440	
13079	43447	A	13159	190	553	EIVREGASFSSIRHLRWSRHRKC RFSVKTLTGEDPSTLEV\EPS\DT IE\NVKAK\IQDKEG\PPDQQRL/ VSFAGKQL\EDGRDSLGSY\NIQ KGSLLLHPCV*DFRGGAKKKEE ESLYTTSPRKD
13080	43448	A	13160	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVFVPECRIG RDILSSWQNPHTGSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY

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13081	43449	A	13161	5	405	HCCGIPHSIASEQDTYFMAKEV WQWAHAHGIHWSYHVPHHLE AAGLIEQWNGLLMSQLQHQLG DNTLQGWGKVLQKVYYALNQ RSIYGTVSPIARIHGSRNQGVEV EVALLTVTPNDPL/GKY*LPVPV TLHSDR
13082	43450	A	13162	138	387	
13083	43451	C	13163	184	297	
13084	43452	A	13164	1	430	
13085	43453	A	13165	1	867	
13086	43454	A	13166	35	601	CLSRRASPVYLASMSGRGKTG G\KARA\KAMSRSSRAGRPSQ VGR\VHRLLRKGHYAERVIGRR QPCCYLGG*CMEYLT*ESWS MAG\NAARNN\KKTRIIP\RHLQ\ LA\IRNDEELNKLAWAALTIAQ GSR/VLPNIQARCCGPR*TSATV G\PKAPSGGEERATQASARSTK RARAAAGRPSVPMPPQRP
13087	43455	C	13167	11	313	
13088	43456	B	13168	1	552	
13089	43457	A	13169	1	621	
13090	43458	A	13170	55	296	
13091	43459	A	13171	959	1182	WVYLF*PSCKGVIYP*AAGFESI FWWVTINKNIDWINIYYNQ QFMNYTRDAVKGIAEQLGTNC QMAWENRIALDMILAERGGVC IMIKTECCAFIPNNTAPNGSITK ALQGLTALSNELASSSGVNDPF TGWLEKWFGKWKGITASILTS TAVMGVLILVGCCVIPICGLV QRHRGPPLVVIETKPLGLERLA GLPVGHALKLGSGIQATPQNGE NADRREAFPAAS
13092	43460	A	13172	1	540	
13093	43461	A	13173	2	142	
13094	43462	A	13174	42	384	
13095	43463	A	13175	102	329	
13096	43464	A	13176	1	1257	
13097	43465	A	13177	1	378	
13098	43466	A	13178	1	1143	
13099	43467	A	13179	1	481	SDSELNRPRVTMKFNPVTSR SKNRKRHFNAPSHVRRKIMSSP LSKELRQKYNVRSMPIRKTDEV \QVVRGHYKGQQIGQGSRCR KKYVIYIER\VQREK\ANGTNCS TWGISPKARWLFTRLKLDKDR KKILERKAKSRQVGKEKGKYK EELIEKMQE

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13100	43468	A	13180	39	556	AAAGYFAEDCEASCVCVKHPP SVKKARCFLSELIKPSGGSVTL SESTAIISHGTTGLVTWDATLYL AEWAIENPAAFTNRTVLELGSG AGLTG/VAICKMYRPRAFIFSDC HSRVLEQLRGNVLLNGLSLEAD ITANLDSPRVTVAQLDWDVAT VHQLSAFQPDVVIAADVLY
13101	43469	A	13181	46	231	
13102	43470	A	13182	1	1503	
13103	43471	A	13183	3	340	FFFANTFYCVFNVLVNAPLRFL SLPSTQSLEAKLRDSSDSELRRD ILQKVRIPESLGLMTLPPESLRK T*EKNRRCACTL*K\TPVQRTKP LSQHCRVWVAPPTAPALSFSKT
13104	43472	A	13184	2	594	
13105	43473	A	13185	1	1470	
13106	43474	B	13186	79	1355	
13107	43475	A	13187	248	540	
13108	43476	A	13188	386	1388	
13109	43477	A	13189	386	1334	
13110	43478	A	13190	3873	4070	
13111	43479	A	13191	146	510	PPCAVVCLLWIAAVYCLSTTFC APLCGQNTWLPKPCRHNRAA SNASVSLSTVTLSRSL*PQRKG SELLDSSGPLPASPLPLCSGVS PRAGLGSAPKIPFLGIREAKN PRSENTRLTT
13112	43480	A	13192	21	95	KCSSNGAPDAVHE*DLPWTPGP AC
13113	43481	B	13193	1	477	
13114	43482	A	13194	228	935	PLSSSMAAELEFAQIIIVVVTV MVVVIVCLLNHYKVSTRSFNR PNQSRREDGLPQIMHAPRSRD RFTAPSFQDRFRFQPTYPYV QHEIDLPTISLSDGVEEPLLYQV PCTLQLRDPEQQMELNRESVRA PPNRTIFDS\DLIDIAMYSGGPCP PSSNSGISASTCSSNGRMEGPPP TYSEVMGHHPGASFLHHQRSN AHRGSRLQFQQNNAESTIVPIK GKDRKPGNLV

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13115	43483	A	13195	526	1629	FYSFDSARGEPARPWRVRGLEG RVELGQQLGLLTLGPAFPGGGLG GTQRVGLPGPAGPGAGEEGQA GPAEAGQVPVGGGLADEAVEHG VGDAVEAGEQEGEVVGVENAL GEVAAGLPDAAHQHVVVGQ EAGQEDDHGAHQPLDLVLAA LLGAVAPAHGAQDALVGRQQ QADGEEEE/LPGSGSS*WHAAM PGWGSAQSTRGAGSRPR*PPRA SGSRCWSAAPWPR*PR*RRRPP SGSGTGSGSRDGPQPGSGPR/T MQQRKPTLM*MFSYRR\IRTPG RTGRRETSCRAAAARTAAARRA SRCRRGRPPSGCTGTRPARSGP* SAGS\EVEGQAVGREAHHQHG NIDHRGQRLVDGMVDGTAHRG VVCSDVPH
13116	43484	B	13196	2699	7361	
13117	43485	A	13197	67	1523	
13118	43486	A	13198	1	287	
13119	43487	A	13199	2	563	
13120	43488	A	13200	96	401	
13121	43489	B	13201	1	480	
13122	43490	A	13202	1	924	
13123	43491	B	13203	13	1512	
13124	43492	A	13204	1	402	
13125	43493	A	13205	609	803	RDPRHNPSSA\FQAGGIALMLLI TRGEDLTGGVIHQYPPGPMNL WMQGTAGNQRRAAENAAQQQ
13126	43494	A	13206	3	526	VTETALTPYLVAKHGYFLPQD LAKRTETMNWFLWLQGAAPFL GGGFGHFYHYAPVKIEYAINRF TMEAKRLLDVLDKQLAQHKFV AGDEYTIADMAIWPWFGNVVL GGVYDAAEFLDAGSYKHVQR WAKEVGERPAVKRGRIVNPTN GPLNEQLHERHDPDFQTNTN\N NRQG
13127	43495	A	13207	1	250	
13128	43496	A	13208	1	489	
13129	43497	A	13209	209	601	
13130	43498	A	13210	1	96	
13131	43499	A	13211	1	1110	
13132	43500	A	13212	1	595	
13133	43501	A	13213	1	240	
13134	43502	A	13214	1	675	
13135	43503	A	13215	1766	1957	
13136	43504	A	13216	1	426	
13137	43505	B	13217	94	3238	
13138	43506	A	13218	1	2370	

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13139	43507	A	13219	1	2796	
13140	43508	B	13220	43	566	
13141	43509	A	13221	1	903	
13142	43510	A	13222	3	110	
13143	43511	A	13223	2	755	
13144	43512	A	13224	1	1338	
13145	43513	A	13225	1	807	
13146	43514	A	13226	1	918	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDAC\LSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPA\VPTSLKWWKTGPTH WPMA*KA*SVSPRRSDGIRSKN DVIDTSDDDM**QCLSRRSN\G HPGAKVANLVPKTTFIDGVDQT SFFLTNGQSNRKAHEYFLNGK LAAVRMDEFKYHVLIQPPYAY TQSGYQGGFTGTVMQTAGSSV FNLYTDPQESDSIGVRHIPMGV PLQTEMHAYMEILKKYPRAQI
13147	43515	A	13227	1475	2904	FWRAAAPIDCWRSGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLTNGQSNRKA EHYFLNGKLAAVRMDEFKYHV LIQPPYAYTQSGYQGGFTGT VMQTAGSSVFNLTYTDPQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRATGFIFGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQPPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLAVQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLPELHQAQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFDDALSAMRSLKGIG ATHLHEGRDPRILTRS QLRLQ LAWPQQQGRYPLTYHLFLGVI
13148	43516	A	13228	215	525	LAWARRCRLLAKATSLIRAPS SEMRASPCRGQRRPSGYSWY GRSPRAVLEGLRVGAHLSTRAN CPWPSR/SQVVELIPDGFVFLD FTKIPGRDTQNEHIVLLH
13149	43517	A	13229	1	942	
13150	43518	B	13230	1	1201	
13151	43519	A	13231	685	921	

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13152	43520	A	13232	2	251	
13153	43521	A	13233	2	100	
13154	43522	A	13234	5	1093	
13155	43523	A	13235	2	482	
13156	43524	A	13236	1	2496	
13157	43525	A	13237	572	912	RCRPDKAFTPHPAIGARCLMRR LRVLSCLQPLPNVGWIRRLRRIR QFSAPDEGAKCRVAILQ/DFDA QYGRFLEVTSGAQQRFEQTD*K HAAALPFFFPSSAYSALAAISVVF GFR
13158	43526	C	13238	5	127	
13159	43527	A	13239	1	444	
13160	43528	A	13240	17	261	
13161	43529	A	13241	173	397	
13162	43530	A	13242	169	421	LKPKNLDEKLLPASSSSCRIWA TSPVHHLWQVLKKILFGWNPT KSPRCLS/TRQAMFSLSKKASLP WTIAARSADQRCRTRIAEL
13163	43531	A	13243	17	744	RPHQEQRAGCGVNALSSLRSA TAVGMIRRASVASG/DRAPIAG CGVNALSGLHRHFIEVTCTHFL LVRYEGIAIFRGGKFRLHFLN VVLHTLALGIGVCQVKHVEPH AVDTCQGDELELVAHIRQLLE AGNSFVVEVYLPVERRRAVISQ QFARIFRVDSLCKATRQFQIRRG RSHQTGQHMGIIRQVDAAHAD DRRTSGRVPLIQVCPAHSSEA VVVVDVDVDVDVDVDVIGAV
13164	43532	A	13244	954	1104	
13165	43533	B	13245	54	1169	
13166	43534	A	13246	35	3066	VGHSTRPAASPGPAAGIGRSPA RLVQQPQRSKAPLNRPAAQR GLLPQRRHPKTRKRRKQAQN PQKRLPHRQPVRRRHRHRRLL QKMRRPDKRQQRRAAPRRHPR RRQRLAVRRRQLRAKVRRNP RQAPRQQLNGQRILHPPWRLR MQVRRKRG*YSSAVRPTVRLK RWRQRQRQ*NQPMQMQRNVC RKTRTALIYP/YKGCFLNNINAV SKTDFADKRGMRVVRVNAPAG ATSGKYYPVVVMRSAGSFHI
13167	43535	A	13247	1	2919	

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13168	43536	A	13248	1	3211	MEFTSLTPDDLRLVLELYRTPFS DGYVFHSMQFHIFDLLKSGQN VVL SAPTSMGKSAIVDSL LGMG TLKRLVLVVPTVALADETRRRL QERFGDRYQIIHHSSQVCHSDQ AVYVLTQERVNERDDIVIDLDF VIDEFYKLA FRQLKSGDIDHQD ERVIELNIALSKLLK VSRQFYLT GPFVNSIRGLEKLGYPHTFVST DFNTVALDVKTSASKRMTTKP SSKRWGKSRTCVDADHIKNGIG LHFGALPRALQQYT
13169	43537	A	13249	486	3882	LRLRGEALPVASGCLANATDTP AGTTLWADTERHAVQ**TCEA DTLGSCGYAAKPCLSPVAVWQ MLLTRLLEQHYGLTLNDTPFSD EPVLTAPIDAAAALRGIEFGKFQL GNMVVGDIIECGSDVTDYAVG DSVCGYGPLSETVIINAVNNYK LRKMPQGSSWKNAV CYDPAQF AMSGVRDANGARRGFWWGGL GAIRVQLAFKWLNAAGRLPGG GLGGPIPYSAHRCDIARRHGAD FCLNPIGTDVGKEIKLTG
13170	43538	B	13250	1	1116	
13171	43539	A	13251	729	985	SAPPQLAPSLPDRATDPDTCWP PG*RPARYLPSRQIDCFNTRFRL QRLTASQCAEAVDVAFRLTV QQTPHFRCAQLRQRAFRID
13172	43540	A	13252	395	605	
13173	43541	A	13253	1	1140	MIYVFVTVKHRNDHFTKNTLA SYRGRTLLGTLFKGVYHLYKD ETYLYQSGKGHTIQEVRIKGL NNPDLDAAVGEDLAQQLRDEL ELVKGASNEFDKELFLAGEITP VFFGTALGNFGVDHMLDGLVE WAPAPMPRQTDTRTVEASEDK FTGFVFKIQANMDPKHRDRVA FMRVVS GKY EKGMKLRQVRT AKDVVISDALTFMAGDRSH/AY PGDILGLHNHGTIQIGDTFTQG EMMKFTGIPNFAPELFRIRLK DPLKQKQLLKGLVQLSEEGAV QVFRPISNNDLIVGAVGVLQFD VVVARLKSEYNVEAVYESVNV ATARWVECADAKKFEFKRKN ESQLALDGGDNLAYIATSMVN LRLAQERYPDVQFHQTREH
13174	43542	A	13254	1	1495	

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13175	43543	A	13255	372	1365	IRYFENRGLFAHCATRTGQFPP HCILASYKCGEQPDSSSNHPRN LFVWRSNLLGSSG\KGHEYMQ KYLLGTESGIQGEELGASDGIKP EEVEWQTAAIEGKLDLLVTLDF RMSSTCLFSDIVLPTATWYEKD DMNTSDMHPFIHPLSAAVDPA WESRSDWEIYKGIKAFSQCVCV GHLGKETDVVLQPLLHDSPAEL SQPCEVLDWRKGECDLIPGKTA PNIVAVERDYPATYERFTSLGP LMDKLGNGMDLTDYANMALSI PSANTDIWNLEQDTVGTRLTNS RHGLADNGGAWVSYFGGNFN GDNGTINYDQDVNGIMVGVD T KIDGNDG
13176	43544	A	13256	3	1444	
13177	43545	A	13257	61	1058	LPYLIALLARAWFNGLLTSTRTR LYIKNGIVDLPKLQEMVADVS HHFPLRLPAPTPKALYSPCEIRH LAINVNLEYDPTAAFRNQVVHF DFRKLDVFSFGENQNCLVGNV DLL\YRNSWNEVRTLHFNGEQS MIEALKTILGKMHQDAAPPDSV EVFCYSQHLRGLIRTRVQQLVS ECIELRLSSTRQETGRFKALRVS GQTWGLFFERLNVSVQKLENAI EFYGAISHNKLHGLSVQVETNH VKLPAVVDGFASEGIIQFFFEET QDENGFNIIYILDESNRVEVYHH CEGSKEELVRDVSRYSSSHDR FTYGSSFINFNLQDPYLARVSI
13178	43546	A	13258	1	1133	
13179	43547	A	13259	2	240	ISSARHFGALACTLELGKALTF GQNDLRQFAVTASAI AALL/SR HSPSFEMHMASDTLNFMPFEK GTLLAQDGEERFTVTH
13180	43548	A	13260	1	358	LPFLPSGLRGLAAENKIRPHSA GSFLGPPCGLRGKLV/ISAAALM STTIPISRVQGLLQFLNSKSPISR AERSWSTFGASAAFLTTLASLL FLFPPLAISSLANSFAKVFPPTPC AGSP
13181	43549	A	13261	1	1635	
13182	43550	A	13262	1	1363	
13183	43551	A	13263	5	249	
13184	43552	A	13264	15	280	
13185	43553	A	13265	6	363	



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13186	43554	A	13266	78	346	TRYAMLTRHDNHL SKFY LARG RYRADFHAPETNTGERCYRYK PLPYWLE*RRGRNRYPALQ*TM FLPADGPARCLSRQAAILKESV LPK
13187	43555	A	13267	568	831	ELQRHVLVVFAGFWIVKNSRN LFLVCRAEHKRSVVKGLLRQQ GQGFWFHFQDGF AVEVGNAN VIGSE*IVFGIVFPHRERCLVDK
13188	43556	A	13268	3	419	
13189	43557	A	13269	1	561	
13190	43558	A	13270	1	741	
13191	43559	A	13271	2	1040	
13192	43560	B	13272	1	1974	
13193	43561	A	13273	2111	2340	EVFIRDKLMERRNRRTGRTEKA /RDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPVKVLQSQCI
13194	43562	A	13274	470	813	KTTSFPAKLFNACRISLLASAEV NPNISAYLATWISQIPSCSCRVP SDFLIWSTNRY SIRF*SRERLVG EAVA/AAAADGVTFSVPVTPHT FRHSYAMHMLYAGIPLKVLQS LMGH
13195	43563	C	13275	440	1180	
13196	43564	A	13276	1	1290	
13197	43565	A	13277	1	1036	MKLMETLNQCINAGHEMTKAI AIAQFNDDSP EARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMENTS RDRFEQRGFEPDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMLVKNVVRETDEVG KDPRPLPYLGHDEPYTFDINLS VNLKSMVVGGTDMGQEPLKQ MGAWGPLSLKAMFGFFIRGYG FFTPFGRTLPLGFGSTPPFTFPL LTKTIGVFILDKLMERRNRRTG RTEKARIWEVTDRTVRTWIGEA GAAAAADGVTFSVSVTPHTFR HSYAMHMLYAGIPLKDLQSLM GHKSISSTEGYTKDFSLDVG\AR HRVQF\AMP\ESDA\AMLKQLF
13198	43566	A	13278	366	672	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRLALRELQQA V HAGLPQQA KILFDGGSEIGKIPH IVLYKPVQCSLWAFVH
13199	43567	A	13279	2602	2976	
13200	43568	A	13280	982	1347	
13201	43569	A	13281	1	780	
13202	43570	A	13282	568	891	

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13203	43571	A	13283	1	718	MKEKPSSPRQYSYSLSSMILLG GGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEVYTK\VFALDVAAPHPESTP VHLPSRENKIPPPIMRIPCGLPTS PIEQKQGKISATGTQWRRLKQE TRLSSVSARLMSYVGVMC
13204	43572	A	13284	1	496	AMFGFFIRGYGFFTPFGRTLFPPL GFGSTPPFTFPLLTIGVFILDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAGAAAAADGVT FSVSVTPHTFRHSYAMHMLYA GIPLKDLQSLMGHKSISSTEGYT KDFSLDVGARHRVQFAMPÆES DAVAMLKQLF
13205	43573	A	13285	2	545	
13206	43574	B	13286	1	735	
13207	43575	A	13287	1	1599	
13208	43576	A	13288	583	1005	
13209	43577	B	13289	31	1239	
13210	43578	A	13290	1	1023	
13211	43579	A	13291	1	933	
13212	43580	A	13292	1	1278	
13213	43581	A	13293	1	705	
13214	43582	A	13294	2	893	
13215	43583	A	13295	88	429	
13216	43584	B	13296	1	1419	
13217	43585	A	13297	1	2784	
13218	43586	A	13298	163	416	RNGTHPRYIEAVPWGALPAD/G VTFSVPV/TPHTFRHSYAMHML YAGIPLKVLQSRLALRELQQAV HAGLPQQA KILFDGGSEIGKI
13219	43587	A	13299	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLFLEAACHDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRRLHR PQQSPPLGIPHPSLL\TAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13220	43588	B	13300	1	858	
13221	43589	B	13301	1	1098	

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13222	43590	A	13302	1	1047	MNRQLSDSYTEDTKEPSDVTTS ERTRSPPGSAKTTMIDTLKKLQ DVLKTEDSKNPTKSAADLLEQ YVKATGPIIEILQKATKTMEMI MIVEEKASDELQDPPELQQRYI HSVRGKPGLVKQRTQEIETRLR LAGLTVSSPLKRSHSLAKLGSL TFSTEDLSSRPPGPPGPPGLHP GPPRRPPPKLPPAPPGCSVHC CHYPLHFVVSPLGFGYCSLMRI QIVFVTAHVHDSALLPLDASL APEALQNFQRYTGIIHVHRIGM AERMWCDNRNRERTVSSSGGN RLPNAPLPNPGVLSAPPNLIQR PKADDTSAATIEKKATATISAK PQITNPKAEIT*NPRVWQGSWI GEAVAAAAADGVTFSVPVTPH TFRHSYAMHMLYAGIPLKVLQ SLRSQ*SVRGKPGLVKQRTQEI ETRLRLAGLTVSSPLKRSHSLA KLGSLTFSTEDLSSRPPGPPGP PPGLHPGPPRRPPPKLPPAPP GCSVHCCHYPLHFVVSPLGFGY CSLMRIQIVFVTAHVHDSALL PLDASLAPEALQNFQRYTGIIH VHRIGMAERMWCDNRNRERT VSSSGGNRLPNAPLPNPGVLS APPNLIQRPKADDTSAATIEKK ATATISAKPQITNPKAEITRFCPL
13223	43591	B	13303	1	1185	
13224	43592	A	13304	529	774	
13225	43593	B	13305	1	1089	
13226	43594	A	13306	712	1024	GVESNLVVVVALCHRLIYLVW GTRTVRTWIGEAVAAAAADGV TFSVAVTPHTFRHSYAMHMLY AGIPLKVLQSRVVALDVAARH RVQFAMPESDAVAMLKQLS
13227	43595	A	13307	556	1040	
13228	43596	A	13308	1	984	
13229	43597	A	13309	95	428	
13230	43598	C	13310	1	426	

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13231	43599	A	13311	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSVP VTPHTRHSHYAMHMLYAGIPL KVLQSLMGHKSISSTEVTYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKP DGS CIVSLKIDWIIERYQLPQSYQLY YFELAIPVG YFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADV LIVPTPAELFDYTSALQ FFDMLRDL LKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDWGSMLKNVVRETDEVG KARLTWIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRDL LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGSML LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEVTYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13232	43600	A	13312	1	1593	
13233	43601	A	13313	1	2536	
13234	43602	A	13314	887	1205	RPEKAR/IWGVTDRTVVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEVTYTKVFALDVAAR RHRVQFAMPESDAVAMLKQLS
13235	43603	A	13315	79	351	
13236	43604	A	13316	1	2320	
13237	43605	A	13317	187	798	
13238	43606	A	13318	2089	2610	
13239	43607	A	13319	1	1407	
13240	43608	B	13320	154	3682	
13241	43609	A	13321	1	1206	
13242	43610	A	13322	1	255	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13243	43611	A	13323	3058	3160	GSAA*LPPPLPAAFGSCWLSQ RHPHVLV*NEIYHLLH*KSFTSC *HNLSS*PRYPYLSSERVLW*CL SFISKI*SVTMP*SDLISLW*KLE PLTCRSTSHFRQKLAQ/RLP/AY QQGHQDLFILRSDLPSQVFIRDK LMERRNRRTGRTEKARIWEVT DRTVRTWIGEAVAAAAADGVT FSVPVTPHTFRHSYAMHMLYA GIPLKVLQSLMGHKSISSTEVT KVFALDVAARHRVQFAMPESD AVAMLKHYPEINALALYLKCG TEWIC
13244	43612	A	13324	1	1812	
13245	43613	B	13325	1	1776	
13246	43614	A	13326	583	751	
13247	43615	B	13327	826	2097	
13248	43616	A	13328	1810	4163	
13249	43617	A	13329	686	2939	
13250	43618	A	13330	1085	1690	SYFIMVKVGTSYVPINVSFSPKV GPGASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGRNIYK ARIWEVTDRTVRLTWICRGG PAAAADGVTFSDPGPPHTFRH SYAMHMLYAR*YR*KFLQSLM GHKSHPINGKATPKVFGPGMG LARA/HRGAGWQWPKSDAVG MPKQLSLRINALGLYMETGKPE GIMLFFGC
13251	43619	A	13331	3	327	
13252	43620	A	13332	3	337	
13253	43621	C	13333	167	413	
13254	43622	A	13334	1	1256	
13255	43623	A	13335	1	1078	
13256	43624	A	13336	3	976	
13257	43625	A	13337	1	1004	
13258	43626	A	13338	2	291	WRKIYEANGKKRKQRLQS*SL MKQTLNQQRSKETKKASA/SM RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNI PCSWVG RINIVKMAIPPK
13259	43627	A	13339	1	2022	
13260	43628	A	13340	1	2262	
13261	43629	A	13341	5	283	
13262	43630	A	13342	1	1245	
13263	43631	A	13343	1	1203	
13264	43632	A	13344	1	687	
13265	43633	B	13345	1	1371	
13266	43634	A	13346	1	2241	

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13267	43635	A	13347	1	832	LKKCIKTPEIPSKHVRNWVPKV LEQRRQGLETYLQVASITLIPKA DEDTPKKKTTDKNSWTGTDK VFNKILEIKFSSILKRLYWPVLE VLARAMRQEKEIKGIQLGKEEV KLSRFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQ\TESQIRIKYLGIQ LTRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKRYPFCQLCHQSAISTTKG VFTSILPLLMIQLVSGRSCPSV AWSSMECTTV
13268	43636	A	13348	1	1314	
13269	43637	A	13349	1	843	
13270	43638	B	13350	1	1011	
13271	43639	A	13351	1	173	
13272	43640	A	13352	1	323	
13273	43641	A	13353	3	2020	
13274	43642	A	13354	1	1473	
13275	43643	B	13355	1	636	
13276	43644	B	13356	1	456	
13277	43645	A	13357	1	619	
13278	43646	A	13358	1	1293	
13279	43647	B	13359	79	1041	
13280	43648	A	13360	3	718	
13281	43649	A	13361	1	612	
13282	43650	A	13362	1	992	
13283	43651	A	13363	1	1236	
13284	43652	A	13364	1	1071	
13285	43653	A	13365	359	1250	KLPMGVAVVKLLHLPKVIIVFW LASWMMSRWLHYPDWVTIIAQ QVLMNVVSVMQADCRMNLLEI FLRWLMRKIFHVRLLPAVSTPP NCLNQLLFFLTPVNYLPGQVM HFKKPLQIKRNYLSSRHLTFMS RKKLGKVSG\YKIHVQKS\QAFL SANSQGTESQIMSELPFTMASK RIKYLGIQLTRDVKDLFKEKYK SLLNEIKEDTNKWKNNPCSWV GRINIMKMAILPKVIYRFNAIPI KLPMTFFTELEKTTFKFIWNQK RAHIAKSNLSQKNKAGGITLPD FKLYYKATVTKTT
13286	43654	A	13366	1196	2132	
13287	43655	A	13367	1	2271	
13288	43656	A	13368	2	1105	
13289	43657	A	13369	1	2117	
13290	43658	A	13370	1	1447	
13291	43659	A	13371	1	1669	
13292	43660	A	13372	1	2823	

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13293	43661	A	13373	1089	2539	
13294	43662	A	13374	1	1787	
13295	43663	A	13375	1205	1207	
13296	43664	B	13376	1	2745	
13297	43665	A	13377	1	2063	
13298	43666	A	13378	1	4380	
13299	43667	A	13379	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNCSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYHNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIRAELEKETQTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDAINDK
13300	43668	A	13380	1	2367	
13301	43669	A	13381	1	1116	
13302	43670	A	13382	1	1095	
13303	43671	A	13383	670	1500	QTESSTSKSLSTMIKWASSLG WQGWFNIRKSINVQHIKGIQR QKPHDYLNRCKSL*QNSTTLH AKNSQ*IAQNLLKLISNFKVS GYKINVQKSQAFLYTSNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFTELEK TTLKFIWNQKRAHIAKSILSQK NKAGGITLPDFKLYYKATVTKT AWYWYQNMCYRSMEQNRALS YYVAYLQPSDL
13304	43672	A	13384	441	3131	
13305	43673	B	13385	1	5688	
13306	43674	B	13386	916	2165	
13307	43675	A	13387	1	1529	MDPPAGAARRLLCPALL*LPAG *PLRPRLAGAAPAGTALLHER AMPL*LRPGLHDVHGV PDL
13308	43676	A	13388	1	714	
13309	43677	A	13389	3	457	
13310	43678	A	13390	2	492	
13311	43679	A	13391	3	1201	
13312	43680	A	13392	1	309	
13313	43681	A	13393	2	1073	

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13314	43682	A	13394	3119	6984	CIVKHAAMRSAMTSLAARITVL NPTRATTPNT/RVADDQGFLRQ WSKVAKERKLQRLYIGEPSAEA VAAQMPDLILISATGGDSALAL YDQLSTIAPTLIINYDDKSWHPR LSFNKADEITTVFCGSKKSLAN GIPMANILFPTSVIATQQTQHFR FVDDFNAQFLRFASLDPAASPA ITISGKATLEIPGTELVFYAAL KKLNIKPGQTTFDGRFTLLPTC CLGNCDKGPNMMIDEDTHAHL TPEAIPPELLER
13315	43683	A	13395	3	587	
13316	43684	A	13396	1	315	
13317	43685	A	13397	430	636	
13318	43686	A	13398	1	84	
13319	43687	A	13399	1	1647	
13320	43688	A	13400	1	2652	
13321	43689	B	13401	1	1494	
13322	43690	A	13402	1	750	
13323	43691	A	13403	1	513	
13324	43692	A	13404	1	2254	
13325	43693	A	13405	1	746	
13326	43694	A	13406	3	428	LGDDFVRAANIILHCEGKVVVS GIGKSGHIGKKIAATLASTGT PAFFVHPAEALHGDLMIESRDV MLFISYSGGAKELDLIIPRLEDK SIAL/GKPTSPLGLAAKAVLDIS VEREACPMHLAPTSSTVNTLM MGDALAMAV
13327	43695	A	13407	1	1431	
13328	43696	A	13408	943	2481	
13329	43697	B	13409	1	783	
13330	43698	A	13410	3	729	
13331	43699	A	13411	1	843	
13332	43700	A	13412	3	128	
13333	43701	A	13413	1	136	
13334	43702	A	13414	1	492	
13335	43703	A	13415	3	619	



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13336	43704	A	13416	1	1600	GQACHASSSPLKSGRGSPPNFEI LYGPIFEDSLAPD*PKVIAGQIT LRDAVTGPISSPNEAGKIYQLKP NPAVLICRVRGLHLPEKHVTW RGEAIPGSLDFALYFFHNYQA LLAKGSGPYFYLPKTQSWQEA AWWSEVFSYAEDRFNLPRGTIK ATLLIETLPAVFQMDEILHALR DHIVGLNCGRWYIFSYIKTLK NYPDRVLPDRQAVTMDKPFLN AYSRLLIKTKHKGAFAMGGM AAFIPSKDEEHNNQVLNKKVA DKSLEANNHGDGTWIAHPGLA DTAMAVFNDILGSRKNQLEVM REQHAPITADQLLAPCDGERTE RKFNALMESEKGSQNLWKFA VYSGLRHGEAALAWEDVDLE KGIVNVRRLTILDMFGPPKTN AGIRTVTLQPALEALKEQYKL TGHHRKSEITFYHREYGRTEKQ KLHFVFMPRVCNGKQKPYYSV SSLGARWNAAVKRAGIRRRNP YHTRHTFACWLLTAGANPAFIA SQMGHETAQMVEIYGMWID DMSDEQIAMLNARVM
13337	43705	A	13417	2	278	
13338	43706	A	13418	3	662	GHLWIRIDLSQSAVSHSVKELE NHTGVRLLDRTTREVVLTDAG QQALRLRLLLDELNSTLRDTG RMGQQLSGKVRVAASQTISAH LIPQCIAESHRRYPDIQFVLHDR PQQWVMESIRQGDVDFGVIDP GPVGDQLCEAILSEPFFLLCHRD SALAVEDYVPALPLPEGSPLVV KRITPVVERQLMLVRRKNRSL TAAEALWDVVRDQGNALMAA
13339	43707	A	13419	1	646	GQQLSGK\VRVAASQTISAHLIP QCIAESHRRYPDIQFVLHDRPQ QWVMESIRQGDVDFGVIDPGP VGDLQCEAILSEPFFLLCHRD LAGGDYVPWQALQGAKLVLQ DYASGSRPLIDAALARNGIQAN IVQEIGHPATLFPMAAGIGISIL PALALPLPEGSPLVVKRITPVVE RQLMLVRRKNRSLSTAAEALW DVVRDQGNALMA\GRE
13340	43708	A	13420	1	1068	
13341	43709	A	13421	1	381	
13342	43710	A	13422	3	938	

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13343	43711	A	13423	595	1630	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGHYDHDYEFELGTR FRAVIKLCNGDSLRFMTSVY ALVKCFHEGDPLHKTGCQHLIP KQQQNEKYQVPQFDQSTIKNIE SAKGLDVWDSWPLQNADGTV AEYNGYHVEMLLREAGKAGFC RFRNHHQTGFSPAGANQRGPL AATLSGPGGEGQSAVARLTGE KKNHPGAQYANRLSPRVGRFIN AAGTTGNSYDHDYEFELGTHQ RLGAVARIVGDDLLNELRRDV VDARAGDVDQHAHAEKGDFR
13344	43712	A	13424	1	1395	

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13345	43713	A	13425	1307	1992	DKLNPVAHQKAYLAQSSQCHP QNARLVQHTQIRILPISEPPSNRI FACWGKPAWTACCN/FSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQDFADFGTTIKQDFRLLG QTSVDRLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMQLARQVSRLESGQD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADSL MQLARQVSRLESGQDFADFGT TIKQDFRLLGQTSVDRLQLSQ GQAVKGNQLLPVSLVKRKTTL APNTQTASPRALADSLMQLAR QVSRLESGQLKHKEVESPNRPI TSSEIQVLIKSLPIKKSPGPDGFT AEFYERYKEELVPFLLKLFQTIE QERLLPNSFYEASILTSPSRD ATKDNFRPTSLMNIYAKILNK IGQTESSSTSKSLFSTIKSVSSPE CKAGSTYANQDFADFGTTIKQ DFRLLGQTSVDRLQLSQGQA VKGNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGQETTPWSPFSDPVLAFDY KVFMAFVYNVVRVSQRMVVA GCISAFNDKLLNDLICFPVAPVS SKQIFPSDVKVAEPDHSCVSSY RIGSMAPNLTSEMPPRHNYFPA GNSVDHDNEFEL
13346	43714	A	13426	560	844	
13347	43715	B	13427	200	1519	
13348	43716	A	13428	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ

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13349	43717	A	13429	695	1060	FRQRSVAFPPPTVPNACVSVRSR ERDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQ*AQR N*CRKHRLSIPRK
13350	43718	A	13430	1	1558	MRDIFWVPDICKVMLYLVFRRS MGTPLRVAVMGLVITSWKIAQ KPRDFADFGTTINQDFRLLGQT SVDRLQLSQGQAVKGNQLLP VSLKTDTKAKNLYLTKAYYGG GTNFFRKESQKLQSSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTGFADFGTTIKQDFRL LGQTSVDRLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMLARQVSRLESG Q*AQRN
13351	43719	A	13431	391	1676	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQ*AQR N
13352	43720	B	13432	1	1638	
13353	43721	A	13433	1	2430	
13354	43722	B	13434	1	1282	
13355	43723	B	13435	1	1225	
13356	43724	A	13436	350	709	
13357	43725	A	13437	1	2236	
13358	43726	A	13438	548	1698	RSWLRSSLSGSIPIATEISCTSC ASTSS/VRDFPGVKDLTFQWHD RLIFAIARLLGRSACGVTFHKEQ LGTVKVLRGTISQFARQRRAG QLFTHHFFGRTHALGAGNRH LRQQFSRLNVLVQPQDKGIFHH ARNECRALTRRETPAFFRIRAVF NSQLSQTQLHIFFTARPAGLAS KCRKPPQACYLWDFADFGTTIK QDFRLLGQTSVDRLQLSQGQ AVKGNQLLPVSLVKRKTTLAP NTQTASPRALADSLMLARQV SRLESGQNIESAKGLHVWDSW PLHNADGTVDYNGYHVVFAL AGSPKDADDTSIYMFYQKVG NSIDSWKNAGRVPKDSKFD NDPILKDQTQEWSGSATFTSDG KIRLFYTDYSGEHYG
13359	43727	B	13439	448	1116	
13360	43728	A	13440	97	1636	
13361	43729	A	13441	1	1296	
13362	43730	B	13442	1	2160	

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13363	43731	A	13443	485	865	FIRDFADFGTTIKQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMLARQVSRLESGQS*NSS KTKNTKCLNSINQRLKILSLQK DLMCGTAGRCKTLTEQ
13364	43732	A	13444	816	1194	SLILFLRRRRAVEKRGKVKWDS CPNGTTTLTSGAIFLIRDFADF GTPITQDFRLLGQTSVDRLLHLS QGQAVKGNQLLPVSLVKRKTTL LAPNTQTASPRALADSLMLA RQVSRLESGQ*AQRN
13365	43733	B	13445	1	2710	
13366	43734	A	13446	2027	2934	NPRILPISEPPSNRIFACWGKPA WTACCN/FSQGQAVKGNQLLP VSLVKRKTTLAPNTQTASPRAL ADSLMLARQVSRLESGQDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLVKR KTTLAPNTQTASPRALADSLMQ LARQVSRLESGQSRVHSHSLGP LPTTTTGSINQKKGGVSGGPG SKEQAEISCLKERKDLGLGILGS TVGILVKKHQGASTKQGHSD LIKILLSDTSLSTPAAPMVDSLIA RVGVMARGNAITLPVCGRDVK FTLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLLTGQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQYMNLLPIFLRWLMR KIFHDEHGVPDQDQEEPISETII EEEIPSINSDLGNELYFVKLPKF LSIEPKDFADFGTTIKQDFRLLG QTSVDRLLQLSQGQAVKGNQL LPVSLVKRKTTLAPNTQTASPR ALADSLMLARQVSRLESGQP HSTDSATHRKMTLSLADRCST QKIRILPMAGRDPECQRTMIK SSDLMAEIIQEHKEDQLPELEQL EHIGLFSHAEIKAIKKASDLQY RIQERALFKDDFINYVLHEIPLF EQIQRRTIGYSLKHGIRAVKA TIVRALYGRIKPAGVVVTRSV
13367	43735	A	13447	1	5240	
13368	43736	A	13448	4733	4753	

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13369	43737	A	13449	299	761	LNTTAITLCLLLREARKTLMTH QSTCFIKRDFADFGTTIKQDFRL LGQTSVDRLLQLSQGQAVKGN QLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESG Q*AQRN**PVPKEKRRRGDRQE HQQPCRNTEGTALRVWAARDQ
13370	43738	A	13450	3925	4190	FIRDFADFGTTIKQDFRLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTASPRALA DSLMQLARQVSRLESGQ*AQR N
13371	43739	A	13451	2	1040	
13372	43740	A	13452	58	350	HLASWVVALVLHWGCVWVTA ESSTSKTRSPFRARSWIGEAVA AAAADGVTFSVPVTPHTFRHSY AMHMLYAGIPLKVL\QSLMGH KSISSTGVPSSNS
13373	43741	A	13453	1	1290	
13374	43742	A	13454	289	1338	
13375	43743	A	13455	1	732	
13376	43744	A	13456	982	1347	
13377	43745	A	13457	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSVP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIIERYQLPQSYQLY YFELAIPVGYFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLIPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEVDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDLKGFEVDVRIILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
13378	43746	A	13458	1	780	

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13379	43747	A	13459	116	396	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEVTYTKVF ALDVAARHR
13380	43748	A	13460	3	514	
13381	43749	A	13461	2	545	
13382	43750	A	13462	1	1110	
13383	43751	A	13463	1	870	
13384	43752	A	13464	1	1422	
13385	43753	A	13465	1	1599	
13386	43754	A	13466	614	1236	TARVAAARRRCQCWGSGACGS ALTLPRTSSLTLTETPIVQQTRM VVCPTASLPSQWRSCPSSTWA VPKTPPTWTCWRNSAILSL/VVF IRDKLMERRNRRTGRTEKARIW EVTDRTVRTWIGEAVAAAAAD GVTFSPVTPHTFRHSYAMHM LYAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13387	43755	A	13467	1	1023	
13388	43756	A	13468	1	699	
13389	43757	B	13469	1	1281	
13390	43758	B	13470	77	751	
13391	43759	A	13471	1	705	
13392	43760	A	13472	2	893	
13393	43761	A	13473	206	837	CAGAGGIARRRAEKEKALSAV NLDPTSRRLSSTSLPGAPPNPRV AAAGLSRRRPTPESAGRKS/GR WPRASRYQQGHQDLFILRSDLP SQVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AAADGVTFSPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEVTYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13394	43762	A	13474	1	1416	
13395	43763	A	13475	1	765	
13396	43764	B	13476	1	519	
13397	43765	A	13477	1	2784	
13398	43766	A	13478	1	624	
13399	43767	A	13479	2089	2454	

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13400	43768	A	13480	740	1431	CCQTLPVFHPPHPSHLGPRPCPP TH/HLPSEHRSLEAACHDSDS LEPLNLSSGSKTKSPSLPPKAKK PKGLEISA/RPAGALRHRRLHR PQQSPPLGIPHPSSLATAQVFIR DKLMERRNRRTGRTEKARIWE VTDRTVRTWIGEAVAAAAADG VTFSVPVTPHTFRHSYAMHML YAGIPLKVLQSLMGHKSISSTE VYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
13401	43769	A	13481	2	2309	
13402	43770	A	13482	1	603	
13403	43771	A	13483	1	762	MVPHSTGKSWNGCDPTSATLD QLVTVFFMKLFSIGDARIPCLGP RSHSYRRSDYYSGTTIHSCCRA DYWSGTTAHL YCRSDYHPVPS FILVTSTTNHQPLKPSISEASWN PLFASL/HHLQLITES/W/YMSLA TTVFIRDKLMERRNRRTGRTEK ARIWEVTDRTVRTWIGEAVAA AAADGVTFSVPVTPHTFRHSYA MHMLYAGIPLKVLQSLMGHKS ISSTEYTKVFALDVAARHRVQ FAMPESDAVAMLKQLS
13404	43772	A	13484	1	762	
13405	43773	A	13485	1	615	
13406	43774	A	13486	887	1203	RPEKAR/IWGVTDRTVRTWIGR AVAAAAADGVTFSVPVPPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSISSTEYTKVFALDVA ARHRVQFAMPESDAVAMLKQLS
13407	43775	A	13487	1	855	
13408	43776	A	13488	1	927	
13409	43777	A	13489	1	921	
13410	43778	A	13490	1	3216	
13411	43779	A	13491	1	1974	
13412	43780	A	13492	1	1221	
13413	43781	B	13493	1	2337	
13414	43782	A	13494	1	1273	
13415	43783	A	13495	1	1251	
13416	43784	A	13496	1999	3237	
13417	43785	A	13497	1	1773	



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13418	43786	A	13498	1	633	AQALIATYGRDRDPGRPLWLG SVKSNIGHTQAAAGVAGVIKM VMAMRHGQLPRTLHVESPSPE VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRFSYAMH MLYAGIPL\*VLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAGGPGTCACSQQGCRL RGSSVSPGRQHPQPHVRV
13419	43787	A	13499	101	1943	
13420	43788	A	13500	686	3925	
13421	43789	A	13501	1	2084	
13422	43790	A	13502	734	834	
13423	43791	A	13503	1	1075	
13424	43792	A	13504	1	357	
13425	43793	A	13505	795	1273	SHPFFSTDWSTDGTGRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPAV STPPNCLNQLLLFFLTPVNYLPG QVMHFKKPLQIKRNYLSSRHLT FMSRKKLG
13426	43794	A	13506	344	449	SHPFFSTDWSTDGTGRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASCMMSRCPHYPDWVTI IAQQVLTPRKDV MQADCRMNL LEIFLRWLMRKIFHGFGM
13427	43795	A	13507	1197	1511	WHYREPLLLRAQLTNPPSQGLV SITKYLQPEY*AYVLE*QAHL HYQLKSVDQWPVQKQFSSGSD LYQLHPFHVQHFLEPCFPRHPE FAPPSTGTESHYYCCIW
13428	43796	B	13508	1	1494	
13429	43797	A	13509	1	554	MTARKARKITRRWRIGEAADL VGVSSQAIRDAEKAGRLPHPD MEIRGRVEQRVGYTIEQINHMR DVFGTRLRRAEDVFPPIGVAA HKGNDPQGTASMYHGWPDL HHHAEDTLLPFYLGEKDDVTYA IKPTCWPGLDIIPSCALHRIETE LMGKFDEAQP NLGIGT/N*CRM CC*CADCSHAC
13430	43798	A	13510	1771	2068	DTYSVSWIGEAVAAAAADGVT FSVPVTPHTFRHSYAMHMLYA GIPLKVLQSQYPIFKLSYKNPVT QTAWFWFPNRIFGVPINVSFS PKVGPGLPGII
13431	43799	A	13511	65	277	

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13432	43800	A	13512	327	748	VHQFHGSLHEGFCAGCGCPAP GTVCDAGGFCRFRNHHQTGFSP AGANQRGPLAATLSGPGGEGQ SAVARLTGEKKNHPGAQYANR LSPRVGRFINAAGTTGFPTGKR AKSIWCHRNCRW/RVAVVKLL HLPKVIIVFWLAS
13433	43801	A	13513	512	580	
13434	43802	A	13514	2096	2272	EWRNVCGVTGTENTVTPSAAAA QPPQSRPFSWILRPF*RP*RKIS TSFIRPLFTFLPA
13435	43803	A	13515	402	2784	RKNPFILH*LFR*TLRQTKPDNS AGKCVKI**HTQNQRSGRSQSD F*RRRKNISERSAAYR*RQLYIR RQPYAERPS\HVEDKGHKYLVF EANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQSACK RDAELANGALGIIELNNDYTLK KVMKPLITSNTVTDEIERANVF KMNGKWYLFDSRGSKMTIDG INSNDIYMLGYVSNLTGPYKP LNKTGLVLQMGLDPNDVTFTY SHFAVPQAKGNNVVITSYMTN RGFFEDKKATFAPSFLMNIKGN KTSVVKNSILEQGQLTWLQVA KRAGLGGGQSGRTVLRERLPN YKNFKGTIQELGQNQYAVSGEI FVVDNRNTVEITELPVRTWTQVY KEQVLEPMLNGTDKTPALISDY KEYHTDTTVKFVVKMTEEKLA QAEAAGLHKVFKLQTTLTENS MVLFDHMGCLKKYETVQDILK EFFDLRLSYGRLKEWLVGML GAESTKLNNQARFILEKIQGKIT IENRSKKDLIQMLVQRGYESDP VKA WKEAQEKCDNLKTCHTSH GSVMAETA VINHKKRKNSPRIV QSNDLTEAAYSLSRDQKRMLY LFVDQIRKSDGTLQEHGICEIH VAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDE KGYESFPWFIKRAHSPSRGLYS VHINPYLIPFFIGLQNRFTQFRLS
13436	43804	A	13516	2	199	WRKKSLDIPPLIIPNGIVKNILRH FSQLLNPITRPFWSILRPF*RP* RKISTSFIRPLFTFLPA
13437	43805	A	13517	1	1887	

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13438	43806	A	13518	125	828	ECRKHTKLKLQPTIWHVLKI/Y NSEKLLVYRKLLQVLTGLYKRS NLGVRLYACCGLLCPAYPQH FAHGYVDKIPGYPRAGTLTGL HPMQCDNLKTCHTSHGSVMAE TAVINHKKRKNSPRIVQSNDLT EAAYSLSRDQKRMLYLFDVQIR KSDGTLQEHDGICEIHVAKYAE IFGLTSAEAILRYFIKHSADMEA ITNGMMNLNRQRHQHLVALRII FAHGENGGEEVVHIGHV
13439	43807	A	13519	504	755	EPCFPAHPEFAPLSTGAESHHY CCIW*AKYVHQARTL*DQRS*A DHEAYRKTAVRRCSQTTQQA W EQLVHQQHILPSSCRYPG
13440	43808	B	13520	1	1980	
13441	43809	A	13521	923	1063	
13442	43810	B	13522	1	1932	
13443	43811	A	13523	383	1383	RKVFFIALKRMPAMKKAMNLF LGLSNVRTVHPEGFTVYISTHIS FPSLSGYKTRLRSFGLVKQKKS PILLEVLAREIRQE/KEIKGIQFG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKLSRM HGRPHQPPNAASTLPFPKRSSH YGQKSERLSRSGDNRKSHPECR HWQSCAKKSRCLAFTTRTVRHT PR SAYLLTRTIELLESSALWHV QTQRIYAPLYETLDPGNRTHCE
13444	43812	B	13524	107	1000	
13445	43813	A	13525	1778	1897	
13446	43814	A	13526	273	421	SHPPFFSTDWSTDTGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFSSAS
13447	43815	A	13527	273	697	SHPPFFSTDWSTDTGVRSKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMSRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRIIFHVRLLPAVS TPTNCLNQLLLFFLTPVNYLPG QSGTTVPLVSSV

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13448	43816	A	13528	273	688	SHPPFFSTDWSTDGTGVRKSIWC HRNCRW/RVAVVKLLHLPKVI VFWLASWMMSRWLHYPDWVT IIAQQVLMNVGSVMPADCRMN LLEIFLRWLMRKIFTTGLRSFGL VKQKKSPIRMPVCVYTNPCVSIV SRMGQASSL
13449	43817	B	13529	1	1053	
13450	43818	B	13530	1	1869	
13451	43819	A	13531	120	430	EDLSDTGVRKSIWCHRNCRW/ RVAVVKLLHLPKVIIVFWLASW MMSRWLHYPDWVTIIAQQVL MNVVSVMQADCRMNLLEIFLR WLMRKIFHSSLEDPRNWHL
13452	43820	B	13532	148	334	
13453	43821	A	13533	2	147	TSMDKGLQGALKKKI*DL*KK* L\KNIPVDKWITPREVFSGIVCK QNI
13454	43822	A	13534	151	325	KAICHNTFSKPSMDKGL/LRRS KKEGFKTYKKNIYKNIPVDKWI TPREVFSGIVCKQNI
13455	43823	A	13535	283	406	HRTKISIVPEGIFKSFSLPLAGIM TEQYFL*TLHRLRLIM
13456	43824	B	13536	1	1902	
13457	43825	A	13537	508	1041	LWREASKDIRQALKSFAGKEV VFYRPEEDAGDEKGYESFPW/C YQT\WHSPSRGLYSVHINPYLIP FFIGLQNRFTQFRLSETKEITNP YAMRLYESLCQYRKPDGSGIVS LKIDWIIERYQLPQSYQRMPDF RRRFLQVCVNEINSRTPMRLSYI EKKKGRQTTHIVFSFRDITSMTT
13458	43826	A	13538	1	1422	
13459	43827	B	13539	1	1002	

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13460	43828	A	13540	1	160	MVLIVAATVVVVVVVGLCWM AKSECRSAMLSSLQVRIFTYLI GREAAFADNLKWMACANKES ALLDRFIFLILLCKEPWECHCL PLFKVAMPSKCDIPVICAHINIG FTLRQLRGFGPCNIGSFEAKDS KNPQVRVISQKHKALRCIWFIT CSICNPEFTEGALQGNKQRKRQ CLQWFRAKALESNEPGFEFIQD KLLTQSLCFFPYTFLWLTGPHPS GSSYTDPCSSKADVTPSSTAVQ EHSSALELKTKIVSPITRQQHGF FTQISTLADVQENVMEYLHVLS RPKVIDQEHDVVWTEAYIDSTV CRVKRRQLLLQQVPLTRKQQF LPAPYVDLDSARTRTNKQQQN PIIYTGSKQGSHVILFHYGESWN LLRADQRLIFAKSWPRASRYQQ GHQDLFILRSDLPSQVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHKSISSTEYTK VFALDVAARHRVQFAMPESDA VAMLKQL*QPQWWWSW*D CAGWRKVNAAQPCVCLPFRFA SSHTSLDERLRLQTI
13461	43829	A	13541	48	668	
13462	43830	A	13542	1	1278	
13463	43831	A	13543	100	157	
13464	43832	A	13544	1	1122	
13465	43833	B	13545	1	1131	
13466	43834	A	13546	273	812	SHPFFSTDWSTDGTGVRKSIWC HRNCRWESPS*SC/WHLPKVIIV FWLASWMMRWLNYPDWVTII AQQVLMNVVSVMQADC\KRIC WKYFCAG*CGKIFTYQ**TWN NTETSMSQKPCMKRI/YSREE LAV*KMDHSDLSLW*KLEPL TCRSTSHFRQKLAQGFPVSTGT PGFIYSAK
13467	43835	B	13547	1	987	

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13468	43836	A	13548	246	2065	LVGWLDGWLDGWLIVALPFM MIPWHSSIQPFTIHPFNWNFG*M PELCPQI\GMDSWLAGWM/CWL DGWLDGW*MAKLRKPVL*PD KEGNEIWVDMYTVKPSGWTVR TFDKPRKRFI AFFIAGILFRAIKN HFLPRETLQCLPYILTGFRRGQS EYFSIFSNMDLADTVMFLIVAL PFMMIPWHSSIQPFTIHPFNWNF G
13469	43837	A	13549	2	118	
13470	43838	A	13550	397	729	THGIRIGDFFCFTKRKLKRPVL* PDKEGNEIWVDMYTVKPSGWT VRTFDKPRKRFI AFFIAGILFRAI KNHFLPRETLQCLPYILTGFRRG QSEYFSIFSNMDLADTVMFL
13471	43839	A	13551	147	417	SSSWGRSSPQLVCGIFQTAGPQS LCKWNQ*VLAQTNKKTAGTSA DLYVPV*QL*RKAVVLPTNAP WRFWRTRQEWFSRGRSGYQS QET
13472	43840	A	13552	1	2418	
13473	43841	B	13553	1	1848	
13474	43842	A	13554	188	490	EWRNVCGVTGTGTEKVTPSAAAA ATASPIQVLTVLSVTSQIRAFSV LPVRRLLRRSMLSRLNTCVNRF CNPIKKGMRYGICPL*SLLDGL CARLINQGKDS
13475	43843	A	13555	83	440	SLLFKCSGVIVLRRPLGYRQVM NVTRRCLLRTHWMISLLFY*L VNRHRRSVEEYLVSYTLPMGV AVVKLLHLPKNFVSLITPRGRL EKERAFLFQHMRISISTGLKIFV MHTSCPMVVC

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13476	43844	A	13556	1337	2583	QQR*MCQNLMT\QNQRSGR SQNDF*RRRKNIERSAVYR*R QLYIRRPYAERPSHVDEKGH KYLVEANTGTENG YQGEESLF NKAYYGGGTNFFRKESQKLQQ SAKKRDAELANGALGIIELNND YTLKKVMKPLITSNTVFIRDKL MERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTF SVPVTPHTFRHSYAMHMLYAG IPLKVLQSLMGHSISSTEVTYK VFALDVAARHRIRKSDGTLQEH DGICEIHVAKYAEIFGLTSAEAS KDIRQALKSFAGKEVVFYRPEE DAGDEKGYESFPWFIKRAHSPS RGLYSVHINPYLIPFFIGLQNR TQFRLSETKEITNPYAMRV TNP CVSIVCVNEINSRTPMRLSYIEK KKGRQTHIVFSFRDITSMTTG
13477	43845	B	13557	1	696	
13478	43846	A	13558	326	1577	SGLLPKVAFTKPQFLFILLRIW* AKYVHQARTL*DQR*ADHEA YRKTA VRRCSTTQQAWEQSA HQQHIRH
13479	43847	B	13559	1	3822	
13480	43848	A	13560	848	1476	VNVTSFGSRPICSTSPVLFSGL* GPVKEFDT*PSM*ISFELIPSIVIF EPRESVNKYHLPFILKTFARSISS VTVFEVISGFITFFNV*SLFN SMI PRAPFANSASRFLALC*SFWLSL RKKFVPPP*YALLNKDSSPW/SS VFCSR VGFEYKVFMAFVFN VV RVSQRMVVAGCIIAFIDKLLNV LICFSVSVKNRFVIFHSVDFECV
13481	43849	A	13561	1	2196	
13482	43850	A	13562	326	3746	SGLLPKVAFTKPQFLFILLRIW* AKYVHQARTL*DQRS*ADHEA YRKTA VRRCSTTQQAWEQSA HQQHIRH*SCRYPS*ARCQ*LTG QIVHRGEKKEQQLI
13483	43851	A	13563	3802	4075	IRCFTYSPAPGYFPRFRAVIIKLC NGDSL RHFM TSVYALQEAAAE VRHTLVTLRQLVTLYDPVDFQ RDDA*AIRAYDTDTGIRINAWH TDW
13484	43852	A	13564	1708	3198	
13485	43853	A	13565	1	1401	
13486	43854	A	13566	1214	1357	NKINMFIAALFTIAKT\WNQPK\ CPTMIDWIKKRGSSRVASSSPT RTR

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13487	43855	A	13567	3363	3852	SHPFFSTDWSSDTGVRKSIWC HRNCRW/RVAVVKLLHLPKVII VFWLASWMMRWLHYPDWVT IIAQQVLMNVVSVMQADCRMN LLEIFLRWLMRKIFHVRLLPV STPPNCLNQLLFFLTPVNYLPG QGFAGFRNPPSNRIFACWGKPA WTACCNSLRARR
13488	43856	B	13568	350	742	
13489	43857	A	13569	248	599	HRDSYKRMAYGLVISVVSLSR KLRKPVL*PDKEGNEIWVDMY TVKPSGWTVRTFDKPRKRFAF FIAGILFRAIKNHFLPRETLQCLP YILTGFRRGQSEYFSIFSNDLA DTVMFL
13490	43858	B	13570	1	2148	
13491	43859	A	13571	3064	5069	RSDPDENCC*TGH*STLFNWC\ WRNALSIEWPVCNEIFYRLIKPR WEIRWGKRAPVIPKHTLNTQPV EDTSLSTPAAPMVDSLIARVGV MARGNAITLPCGRDVKFTLE VLRGDSVEKTSRVWSGNERDQ ELLTEDALDDLIPSFLTGGQTP AFGRRVSGVIEIADGSRRRKAA ALTESDYRVLVGELDDEQMAA LSRLGNDYRPTSAYERGQRYAS RLQNEFAGNISALADAENISRKI ITRCINTAKLPKSVVALFSHPRQ APCMKSNNALIVILGTVTLDV GIGLVMPDLALKGLRVLLVEG NDPQGTASMYHGWVDPDLHIHA EDTLLPFYLGEKDDVTYAIKPT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINVV CAAHALIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEVDV RILLTKYSNSNGSQSPWIEEQIS DAWGSMVLKNVHAIVTGDAV GMDDIPQEARQYRHNQAYAYS IQGDGAEDDDERIVRFHTRVTV DSDTLASDAARLTCRHGLGNQ RNGGVLIEDKFECFFSLTAVFA TRAYYAVYHLTGARHSDIVVA HGYAGCNVRFVALLGTNTTLE TYLSNQSGNGFSCLHFGEDVGQ



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13492	43860	A	13572	1408	5578	CSHLLIIQLANQNTIITFGKCSSF TTATPIGNFYDTRYSSSTERRCLL TSQ*KRRDEIIQCVLISKQLRAR SLPDPTRKVFSTLSRSTFRVNF TSRPHTGK V WAFREPFLPPHL RKPDTDTGYLYKRMAYGSVIS/ ICFTKPKLRKPVL*PDKEGNEIW VDMYTVKPSGWTVRTFDKPRK RFIAFFIAGILFRAIKNHFLPRET LQCLPYILTGFRRGQSEYFSIFS NMDLADTMVFL
13493	43861	A	13573	2678	2884	SAPLQRNTARRFLFLKACSNR FCYR\WRHMTAIPSYNRSKLREI KGGLYHMGIFRRFLASKETPTF CY
13494	43862	B	13574	1	7903	
13495	43863	A	13575	1	880	
13496	43864	A	13576	1	996	
13497	43865	A	13577	763	778	NRCEPPV*GTRFSQQLLLALKA TLLIEELYALTVHSWRPKW
13498	43866	A	13578	2	254	
13499	43867	A	13579	1	2358	
13500	43868	A	13580	206	382	
13501	43869	C	13581	1	1137	
13502	43870	A	13582	79	906	
13503	43871	A	13583	2	383	SPPEVVRLGYHPPRHGHQHLF ASCRKGDVGRVPR*TRDPGSD LLPAQVPAGAARRGGTTPACV GTRSWYSTFWPMEPAARPTPS MVSAASMGH*VTPSAGLYAITS RSRLPAGGGITMTTSCSGF
13504	43872	A	13584	1	1092	
13505	43873	A	13585	173	262	
13506	43874	A	13586	898	1391	QLGILRVNLLGIDLRVTGHQAA PPLHLLDLLQMH/SSPPCRPQ*A TSSPPPSLRRCRAPHR*SLAAP*A PPPRPSLSAGSPHRKGPPGPAPT GSWSSGNQAGLPCCLGWASVF LCPSHLPPPHLPQSSASLAFHRV KHLIHLHNSVIDKMKYQLKFLC LLGEYLSV
13507	43875	A	13587	1	960	
13508	43876	A	13588	1318	1369	RDFHPK*HTIGIQYIWQQLEINQ CDTSLSMVLP\R*RDHFHPKSHLL PGAAQIQ
13509	43877	A	13589	212	385	
13510	43878	A	13590	377	505	
13511	43879	A	13591	69	193	CSLRSLAQMLPFYPRRSLCLSCS L**PHCCLWLAALRSESK
13512	43880	A	13592	1	230	
13513	43881	A	13593	2	341	

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13514	43882	A	13594	1	2421	
13515	43883	A	13595	1	623	
13516	43884	A	13596	1	906	
13517	43885	A	13597	1	568	
13518	43886	A	13598	107	199	
13519	43887	A	13599	42	328	GGASGVCSF*CSE/LSSFWWVR GLAGSGVKLQTFATQEPSWLH PVDVPVGLQVELPASPAPCART PQPLGGRWDSAPWSRGRRSSG AHGIDVALLP
13520	43888	A	13600	5	124	IWILWFFVSLT*RSRGPSSQ*VLQ LIKAPHVDLLVVTFCG
13521	43889	A	13601	827	973	IHQSAICI*LKFYTSLSLTHPVISLV VETLVVW*YLKM*KKLWSWI RGRG
13522	43890	A	13602	2	503	
13523	43891	A	13603	56	792	
13524	43892	A	13604	1	411	
13525	43893	A	13605	1	1554	
13526	43894	A	13606	1	363	
13527	43895	A	13607	1	966	
13528	43896	A	13608	932	1189	
13529	43897	A	13609	146	323	
13530	43898	A	13610	1	1827	
13531	43899	A	13611	2	412	
13532	43900	A	13612	1	2238	
13533	43901	A	13613	2	411	GATDCVCYYTVGFNDTKTSAL HMOVGDSDLAMDVSSVHHNSTL LRYSVTLGFGFYGDIIKDSKD KRRLGLARYDFLCIKTFSSH* YEGTVTFLPAQHTVGSPDRKP CRAGCFVCRQSKQQLLEEQT ALYGLEL
13534	43902	A	13614	3	2185	
13535	43903	A	13615	206	1568	
13536	43904	A	13616	165	417	TWDYIRPNE*YM*MAKKKMP MD\VCNGKNWRPAGEFVDD G\TETHFSIGNHDCYIKAVSSGK RKEGIIHTLIVDNREIPEIAS
13537	43905	A	13617	463	837	
13538	43906	A	13618	1	765	
13539	43907	A	13619	3	510	AGVHKIEFEHGTTSQKRVVYV DGKEEIRKEWMFKLVGKETFY VGAATKATINIDAISGFAYEY TLEINGKSLKKYMEDRSKTTNT WVLHMDGENFRIVLEKDAMD VWCH\GKKIRRPAGEFVDDGTE TPLQYPGPMTICYIKAVSSGKR KEGIIHTLIVDNREIPEIAS
13540	43908	A	13620	342	585	
13541	43909	A	13621	1	1119	

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13542	43910	B	13622	48	1104	
13543	43911	A	13623	656	916	GWRKYLQGAADMGIAEGGGS VWSSWASSSLISVPVR*LCESTQ RSAPGWPPLTGGSCSESVALWL CVNDFEFQMRLMPSRDSEPAC
13544	43912	A	13624	179	682	
13545	43913	A	13625	1	7511	
13546	43914	A	13626	56	8669	
13547	43915	A	13627	42	8716	
13548	43916	A	13628	1	2457	
13549	43917	A	13629	3	571	
13550	43918	A	13630	1	867	
13551	43919	A	13631	1	2238	
13552	43920	A	13632	171	396	
13553	43921	A	13633	1	3940	
13554	43922	A	13634	554	619	
13555	43923	A	13635	1	1359	
13556	43924	C	13636	208	359	
13557	43925	A	13637	2	513	PSHDHSLGTRASGKVILHGEH AAVHGKVALAVSLNLRFTLRL QPHSNGKGDLSLPNIGIKRAWDL VARLQSLDTSFL/RWTKEDLELI NKWAFQGERMIHGNPSGVDNA VSTWGGALRYHQGKISSLKRSP ALQILLTSTRGVPNRALVGGG RNRL\LEVPDMGGPLLSW
13558	43926	A	13638	3	1331	RVDDFVGELLRLRRGGAADVE AAAAAGFPGAMLSQVLLVSAP GKVILHGEHAVVHGKVALAVS LNLRTFLRLQPHSNGKVDLNL NIGIMRAWDVARLHSLDTSFLG ECKEEKPEQGDVTTPTSEQVEK LKEVAGLPDDCAVTERLAVLA FLYLYLSICRKQRALPSL\DIVV WSELPPGAG\LGSSAAYSVCLA AALLTVCEEIPNPLKDGD\CVN R\WTKED\LELINK\WAF\QGER MIHGNP\SGV\DNAVQHLGEGA LRLPSRGRFSFL*RGSPVFQI/LG LTNTKVPSAITRALVAGVRNRL LKFPEIVAPLLTSIDAISEECERV LGEMGEAPAEQYLVEELIDM NQHHLNALGVGHASLDQLCQV TRARGLHSLTGAGGGGCGITL LKPGLQPEVEATKQALTSCGF DCLETSGAPGVSIHSATSLDSR
13559	43927	A	13639	1	950	
13560	43928	A	13640	1	1653	
13561	43929	A	13641	1	2601	
13562	43930	A	13642	2	513	
13563	43931	A	13643	47	367	

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13564	43932	A	13644	1	633	
13565	43933	B	13645	1	1110	
13566	43934	A	13646	172	1095	
13567	43935	A	13647	1	855	
13568	43936	A	13648	3	440	
13569	43937	A	13649	2	230	
13570	43938	A	13650	2	606	AEFDLCCSPCRRRLLGREEAGE EPTSPVTQYLQPRSPEECKMFA CAKLA\CTP\SLIRAGSRVAYRPI SASVLSRPEASRTGEGSTVFNG A\QNGVSQ\LIPKGSFKTSAISKK TLDTA\AKFIGVAGAGNS*GVG WFLVAGIG\TVFWASLIHWVM ARKPFRWKQQLAFSY\AILGICL VLKAMGSPFVLMVAFLILFAHV TEITA
13571	43939	A	13651	200	2320	
13572	43940	A	13652	224	640	
13573	43941	A	13653	1	357	
13574	43942	A	13654	43	183	
13575	43943	A	13655	3	478	SSAGREPDPDDLPRRLCFTHRLP AARRWVQLCVHASPEPGGQGV CPGRSERMVIRVFIASSSGFVAI KKKQQDVVRFLANKIEFEEVD ITMSEQRQWMYKNVPPDKKP TQGNLPPQIF\NGDRYCGDYD RLFESKESNTVFSFLGLKPRLAS KAEP
13576	43944	A	13656	2	428	CRDGKDVVSLVRATVWALSKR KLQPTRA/ALTPTPSAVNLIKQF LKDKPELVVDKVGVRTRGCNG LSYTVEYTKTKGNSDEVIQDEA RVFIEKKAQLTPLGTEM DYVED KLSSE/FMFNNPT*TCGCGAPGK LVETLGLTEEIM
13577	43945	A	13657	1	1377	
13578	43946	A	13658	1	1215	
13579	43947	A	13659	1	452	REAEAADLRSEAPGRRDGEDV GFLSSGQLSGLCSKRKLQPTRA ALTPTPSAVNLIKQLLKE*P*AC R\LKVGVRTRGCNGLSYTLEYT KTKGDSDEEVIQDGV RVFIEK\K AQLTLL*TEM DYVEDKLSKGV GVH\SPNIKGTCGCGESFNI
13580	43948	A	13660	3	763	
13581	43949	A	13661	1	306	
13582	43950	A	13662	738	1022	GQHHPETKAWQRHNKKREF*T NILDEH*CKNPH*NTGKPNPAT HQKAYPP*SSGLHPWDARLVQ HTKINKCNPA YKQNRQKPHD YLNRCRKGL

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13583	43951	A	13663	2	516	QKIDLPEYQGEPEDEISIQKCQEA VRQVQGPVLVEDTCLCFNALG GLPGPYIK\WFLEKLKPEGLHQ FLAGVEGKS\AYALCTFALSTG DPSQPVRLFRGRTSGRI\VAPRA CQDFGWD\PCFQPDGYEQTYAE MPKAEKNA\SHRFRA\LLEVLQ EYFGKFGQLDFCKLEAGPFR
13584	43952	A	13664	7	227	
13585	43953	A	13665	1	415	
13586	43954	A	13666	234	510	
13587	43955	A	13667	2	402	
13588	43956	B	13668	530	1544	
13589	43957	A	13669	1	603	
13590	43958	B	13670	1	1527	
13591	43959	A	13671	1	1179	
13592	43960	A	13672	2	413	
13593	43961	A	13673	100	374	KHISPALKALELPFERNLII/PLQ LLKVRILKEGEML/DI*HWFL** GMGTVQKGMPHKCYHGKTGR VYNVTQHAGVIVVNKQVK*VV
13594	43962	A	13674	1	1035	
13595	43963	A	13675	2	564	GPFGNRHLPVIRQNDGPQRGK RRGTPKYVF*/RPFRK\HGGGPL GPPYM\RI\YRKGDIVD\IKGMG\ TVQNGMPH\KCYHGKTGRVYN VTQHA\GIVVNK\QVKGKILA K\RINVRIEHI\KHSKSPR*ASLK/ RVLKENDQEKERSPKKKGTWG SNLKRHPAPPQKKHTL*RTNGK EPEL\LEPIPIYEFHGHN
13596	43964	B	13676	68	391	
13597	43965	A	13677	1	404	PTRTWTRGRIPRLSAPPSRGAR GTMA DPRVRQIKITGV\VKRL V\KEKVLYEKEPKQ\QEEKIEKM RAEDGENYDIKKQAEIL\QESR MMIPDCQRRLEAAYLDLQRILE NEKDLE\EAEEYKEARLVLDV KLEA
13598	43966	A	13678	1	436	LLACRSMDCYLAIVHATRTLT QQRHLVKFICLGLRNLFLLLSL RILLFRRTFYPSNVSPVCYEDM GNNTANWWMLLRILPQSFGFIV PL/LIMLFCYRFTLHTLFAHMG QKHWTMWVIFADVLIILLCWL PYNLVLLADTIMGT
13599	43967	A	13679	1	705	
13600	43968	A	13680	292	1489	
13601	43969	A	13681	434	1205	
13602	43970	A	13682	1	390	

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13603	43971	A	13683	21	479	TYPEAWKLYYRSR*SRDLRKY HAHSVSP*QDQRYTS*KILKCD EHIQKLGSCITDPGNRETSGNT MHTVFHRDKTKDTHPESCCSSE KGGQPLPWFEHRKNVPQFAEP TETLFGPD SGKGAKSLVELLDE SECTSDEEIFISQDEIQSFMANN QSFYSNREQYRQHLKEKFNKY CRLNDHKRPICSGWVDNGWEA
13604	43972	B	13684	32	438	
13605	43973	A	13685	533	1226	
13606	43974	A	13686	1	1566	
13607	43975	A	13687	215	453	
13608	43976	A	13688	1	553	RRPARAAVIKQPPAPGASQHAA TPTQTPLCTPARPLPPMAHVQQ LEGRWRLVDS\KGF**NTMKE\L GVTIALRKMGRNAQAQICIT\S DG*NPSPLKTESTLKT\TQFSC/ LWGEKFEETTA\DGQK\LTNCL STFPDG\AL\VQH\QEW\DGERKS T\ITKKN*KDGEISWLECVMN\N VTCTPD\SMKK
13609	43977	C	13689	11	106	
13610	43978	A	13690	3	155	LCELQKAIDLFTDAIKLNPR LAI LYAKRASVFVKLQKPNAAIRD CDRAIEINPDSAQPYKWRGKAH R*ILAWPFCMPRGPVSSSNYRS QMLPSETVTEPLK
13611	43979	A	13691	1	1732	
13612	43980	B	13692	95	1715	
13613	43981	A	13693	1	446	
13614	43982	A	13694	1	786	
13615	43983	A	13695	88	828	

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13616	43984	A	13696	157	1515	RREKMAELKYISGFGNECSSED PRCPGSLPEGQNNPQVCPYNLY AEQLSGSAFTCPRSTNKRSWLY RILPSVSHKPFESIDEGHVTHNW DEVDPDPNQLRWKPFEPKASQ KKVDFVSLHTLCGAGDIKSN NGLAIHIFLCNTSMENRCFYNS DGDFLIVPQKGNLLIYTEFGKM LVQPNEICVIQRGMRFSIDVFEE TRGYILEVYGVHFEPLDLGPIG ANGLANPRDFLIPIAWYEDRQV PGGYTVINKYQGKLF AAKQDV SPFNVVAWHGNYTPYKYNLK\ NFMVINSVAFDHADPSIFTVLT AKSVRPGVAIADFVIFPPRWGV ADKTSGPPYYHR\NCMKRFME LIRGQFEQKQGWFLPGGRG/SL HSTMTPHGP\ADADCFEKASKVK LALKRIADGTMA\FMF*SSFNLA GPKWGLQAPRVLDKNYPKCW EPLKSPF\TPNSRNPAEPN
13617	43985	A	13697	1	156	
13618	43986	A	13698	8	306	
13619	43987	C	13699	1	1143	
13620	43988	A	13700	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLIEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPIRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGC SL SHGPQ TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSHP LIHVRVYAEAITGRRTAPEDKGS LGRDMLAKAGAIYMNMGNKL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEAEWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSSEASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLG LILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
13621	43989	A	13701	188	688	

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13622	43990	A	13702	636	2628	SNDRTEDDCGKHPFMSSPP(TEP WVCLIEGQEIDFLDGTTFSTV LIPCLGRLSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPEEAEW FTVLDLKD
13623	43991	B	13703	302	619	
13624	43992	A	13704	1	5172	
13625	43993	A	13705	1	2091	
13626	43994	A	13706	1	1754	GPRGTGPKGKARSEKCSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPILGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEAEWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSqliwTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGTRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT LIKETQRANTHLVEWESEAETA FKTLKQALVQAPGLSLPTGQNF SLYVTERAGIALGVLTQTRGTT PQPVAHLSKETDVVAKGWPHC LRVVAAVAVLVSEAIKIIQGKD LIVWTTHEVNGILG/AKGSLWL SDKRLFRYQALCLEGLVLQIRT SCGSHLAVTRLWALYF
13627	43995	A	13707	2	887	



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13628	43996	A	13708	3	1750	GWAVPRPGPRGLTVATEAAAA AAAAAAAAAISSRTRAPQAPEGR NRRLEKMADDIDIEAMLEAPY KKDENKLSSANGHEERSKKRK KSKSRSRHERKRSKSKERKRS RDRERKKSKSRERKRSRSKERR RSRSRSDRRFRGRYRSPYSGP KFNSAIRGKIGLPHSIKLSRRRS RSKSPFRKDKSPVREPIDNLTPE ERDARTVFCMQLAARIRPRDLE EFFSTVGKVRDVRMISDRNSRR SKGIAYVEFVDVSSVPLAIGLTG QRLVGVPIIVQASQAEK\NRAA AMANNLQKGSAGPMRLYVGSS HFNITEDMLRGIFEPFGRIESIQL MMDSETGRSKGYGFITFSDSEC AKKALEQLNGFELAGRPMKVG HVTERTDASSASSFLDSDELER TG\IDLGTTG\RLQLMARLAEG TGLQIPPAQQALQMSGSLAF\ GAVGRNLFCYRFAKQDFSHQT\ ETSALSAAAS\VQPLATQCFQLS NMFNPQTEKEVGWDTEIKDDV IEECNKHGGVIHIYVDKNSAQG NVYVKCPSIAEAIAAVNALHGR WFAGKMITAAYVPLPTYHNLF PDSMTATQLLVPSRR
13629	43997	A	13709	141	343	LHEGLLP*RGHALLSGALHG*C VGSCLFSTPRCLTSSTACGYPS CTPGSCTAWCPASRRLSCWT
13630	43998	A	13710	5	426	
13631	43999	A	13711	1	1188	
13632	44000	A	13712	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEAVI DGRRKPEESRTTSHICCRS
13633	44001	A	13713	1	700	
13634	44002	A	13714	3	483	
13635	44003	A	13715	2	361	RRFRAGAGYVVESTGVFTTME KAGAHLQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIISNA SCTTNCLA/PPASTGAAKAVGK VPELNGKLTGMAFRVPTANVS VVDLTCRLEKPA
13636	44004	A	13716	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRPAWHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV

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13637	44005	A	13717	1	1079	GTRRQSAASSFASPAEPHRSDT MGKVKVGVNGFGRIGRLVTRA AFNSGKVDIVAINDPFIDLNYM VYMFQYDSTHGKFHGTVKAEN GKLVINGNPITIFQER\YPSKIKW GDAGAEYFVESTGVFTTMEKA GAHLQGGAKRVIISAPSADAPM FVMGVNHEKYDNSLKIISNA\S CTTNCLT\PLAKVIHDNFGIVEG LMTTVHAITATQKTVDGPGSKL WRDGRGALQNIIPASTGAAKA VGKVIPELANGKLTGMAFRVPT ANVSVVDLTCRLEKPAKYDDI KKVVKQA\SEGPLKGILGYTEH QVVSSDFNSDTHSSTFDAGAGI ALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
13638	44006	A	13718	3	483	
13639	44007	A	13719	2	361	RRFRAGAGYVVESTGVFTTME KAGAHQGGAKRVIISAPSADT PMFVMGVNHEKYDNSLKIISNA SCTTNCLA/PPASTGAAKAVGK VIPELANGKLTGMAFRVPTANVS VVDLTCRLEKPA
13640	44008	A	13720	2	249	SADAPMFDMGVNHEKYDNSL NII/SVMKAGPVEKRP\WHPMD TLP*LAPRSLFLCSNASCTTNCL EPLAKVIHDNFGIVEGLMV
13641	44009	A	13721	1	1079	GTRRQSAASSFASPAEPHRSDT MGKVKVGVNGFGRIGRLVTRA AFNSGKVDIVAINDPFIDLNYM VYMFQYDSTHGKFHGTVKAEN GKLVINGNPITIFQER\YPSKIKW GDAGAEYFVESTGVFTTMEKA GAHLQGGAKRVIISAPSADAPM FVMGVNHEKYDNSLKIISNA\S CTTNCLT\PLAKVIHDNFGIVEG LMTTVHAITATQKTVDGPGSKL WRDGRGALQNIIPASTGAAKA VGKVIPELANGKLTGMAFRVPT ANVSVVDLTCRLEKPAKYDDI KKVVKQA\SEGPLKGILGYTEH QVVSSDFNSDTHSSTFDAGAGI ALNDHFVKLISWYDNEFGYSN RVVDLMAHMASKE
13642	44010	C	13722	40	243	
13643	44011	A	13723	2	2972	
13644	44012	A	13724	1	602	

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13645	44013	A	13725	1	325	MGRNQSRKAENTKNESASSPP KDRNSSPVREQSWTENEFDELT EVGFRKL VITNFSELKEHVLT D HKEAKNLEKSLEV VAREISQE KEIKVFN*EKRKSNCPCLQMT
13646	44014	A	13726	1	981	
13647	44015	A	13727	1	739	MGRNQSRKAENSKNQSTSSPPK DCSSSPAREQNWTKNFDELTE VGFRSLIANFSKLKECVLTHR KEAKNLEKSDRENGTKLENTL QDIIQENFPNLRQANIQIEIQ RIPQRYSLRRATPRHIIVRFTKV EMKEKMSRAAREKGRVTHKG KPIRLTADLSAENLQARREWGP VFNIKLNFPQPRIPYPAKLSFISG GEIKSFTDKQMLRDFFTTRPAL QELLKEALNMERNNQYKPLQK HAKW
13648	44016	A	13728	1	1277	MKEQNGGGGREEDHKDKGIRQ LPSLLPSAGEAKSDKPEHHNRY RKEIASFEDEKRAMGVAKMAE QEQLQSAAPSMTNAEVGTAHG GRAEAGRGVDS PGKRKVLGDF PFLAKGSRDRLPGKAGHSLPKY YAFTKVLATGRQERN SINISKK VIYTKTTSTGHQHQRPKIDKTT KMGRNQSRKAENSKNESTSSPP KGHSSSPATEQSGTENDFDEL TEVGFRRSVTTNFYELKEDVQTH RKEAKNLEKRLDKWLTRINSV EKTLSMMELKTMARELRDTC SSFKSRFNQVEERVS VIEDPIY\E LSREDKVRD KKV RNKQSLQEI WDYVKRPNLRVIGVPESDGEN GTKLENMLQDIIQENFPNLRQ ANIQIEIQRT PQRYSRRATPR HIIVRFTKVEMKQKVLRAAREK GPVTHKGNSGSL
13649	44017	A	13729	1	1584	
13650	44018	A	13730	493	575	SHLPMNPANTRSQRNPTKKKQ KKNVC/DNIRELEQQMEDAYR GTRKMLPSSSRMRSDGFDEE SQRYYWRPKNEISGTLEDDFLK AKSWNRKFYDYEANMPDRWGV QVAIKSYTLKNLKQT VVISKILP TGRKHLPR*SHLPMNPANTRSQ RNPTKKKQKKNVCG
13651	44019	A	13731	1	655	
13652	44020	A	13732	2	1664	
13653	44021	A	13733	1	2364	
13654	44022	A	13734	1	224	

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13655	44023	A	13735	1033	7511	
13656	44024	A	13736	56	8669	
13657	44025	A	13737	42	8716	
13658	44026	A	13738	1	5046	
13659	44027	A	13739	1	2298	
13660	44028	A	13740	1	2362	
13661	44029	A	13741	1	2046	
13662	44030	A	13742	1	1503	
13663	44031	A	13743	1	813	
13664	44032	A	13744	185	735	
13665	44033	B	13745	317	910	
13666	44034	A	13746	1	867	
13667	44035	B	13747	1	2325	
13668	44036	A	13748	1	430	
13669	44037	A	13749	1	867	
13670	44038	A	13750	35	518	CLSRRASPVYLASMSGRGKTG GKARAKAKSRSSRAGLQFPVG RVHRLLRKGHYAERVGAGAPV YLAA\LEVAQPLRVLELAGN AA\RSN\KKTRIIPRHLQLAIRND EEL*KLPGLP*RIAQGSR/VLPNI QA\VLLPK\KTSATVG\PKAPSG GKKATQASQEY
13671	44039	A	13751	1	937	
13672	44040	A	13752	1	1096	
13673	44041	A	13753	85	1512	
13674	44042	A	13754	3	2377	
13675	44043	A	13755	1	1134	
13676	44044	A	13756	49	408	
13677	44045	A	13757	47	2603	
13678	44046	A	13758	1	378	
13679	44047	A	13759	1	696	
13680	44048	A	13760	3	401	
13681	44049	A	13761	882	1106	KLHPYTTRQYCHFRI*TDVMAK RSRNAVKGLSALVWCALSDF AGFTPDDGCTRATFFTGGWRK RDCRGAVAGG
13682	44050	A	13762	688	1100	
13683	44051	A	13763	476	552	
13684	44052	B	13764	178	1107	
13685	44053	A	13765	1	198	
13686	44054	B	13766	94	625	
13687	44055	A	13767	1	732	
13688	44056	A	13768	1	4443	
13689	44057	A	13769	216	575	PGAGDRYVGKPVSAAGVTAVSC GVWSSMPDATLIASYQAYTSH VGRIRRSRRJR/TNTARADYPAL TALPFNNFRTHNRFNFNAASVL ASIGIGSSLICAARISAHSGAEH KPREPKAANIK

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13690	44058	A	13770	1018	1489	KLPGQRRFVQTPSHVLHTLSY PTAPAQSSYPAPLSPSQDRAPTL AHQTT*FSASYTANAQWQRVA ADHLKSVRETYAHVRQFSPAL GNAPPDQLPLS*ASCVPKSGAR YSSVIRQNRDRDFRATDHMYVT VPTNRPKMWNPNVTQMNSFRA DTCER
13691	44059	A	13771	1013	1755	GSPGLRPGGAAGKALAPSGCT GNSHRAPM*PGAQAQTRPEKW A*QRP/HVSTGARGARVRALAA VAAAEARAGAAVRAALHT RAAVSAGAARAVVQVLAAR TREAGAAAAAQGVAQVQAES AIAAWLQAAPVHPLLTVGALE TGWAVADVGRVRVCTPDTQA AVEAGSICTCHPAHLTPQPVEP TRAGAFKGPGLTTAASIGTRV PVTGPRPRDKASGSGRGRAPGA EAAAGGDRDRAEGSSPAL
13692	44060	A	13772	1	1236	
13693	44061	A	13773	1	456	
13694	44062	A	13774	1	219	
13695	44063	A	13775	1707	1853	
13696	44064	A	13776	1	615	QLATFFFGGGLPGGSAPWDPPG EACLWVLVRLPGRTVWVIQFV QLRSFFAPFAHNGRASSGRVS VHYGIAQTAEWAAEICGVGAR KIRELAAIFHQNTIMHFANGG/N PTRRS AVLSSMQGSLPGGC\DA VDIHPVARIVEALENPGGAYQH NGMNRHFPDIRFIWWAGGANF THHQDTNRLIRAWQND SYFRK GRIKAKMGPKLF
13697	44065	A	13777	407	661	ANWIKWRWHRAMHSSSSMWQ TANSLASFISAPVTSSSACRSTL PATRYWCI*WRSSAIWKWVILS GPVATRICTATIWIQLICN
13698	44066	A	13778	1	2448	
13699	44067	A	13779	3	1612	
13700	44068	A	13780	1	1626	
13701	44069	A	13781	3	118	
13702	44070	A	13782	1175	1396	
13703	44071	A	13783	197	933	
13704	44072	A	13784	2	64	IILLNSAPAWM*TFKLPGVDV NYMLHTQNK
13705	44073	A	13785	1	855	
13706	44074	B	13786	1	1605	
13707	44075	A	13787	1	588	
13708	44076	A	13788	1	2769	
13709	44077	A	13789	813	1341	

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13710	44078	B	13790	1	999	
13711	44079	A	13791	1	281	
13712	44080	A	13792	1	1332	
13713	44081	A	13793	1	1384	MPITLRRSVEKEQLIEIANTIMPF GKYKGRRLIDLPEEYLLWFARK DEFPAEARYTHIDLHVPAPLLV MFTLDTRQSACDRNPHLPIHVC SSWTSPKCAPRLWTRALLPRTR TPPYATGTTIGSRASWVFVTPD ASFYRRKAPRQEFHTSLQGRSL YVRQRSTANPTEITRRTLIHKM VEVNACLKQLDNKDIADYEHN QLMRRLRQLIAQSWHTDEIRKL RPSPEAIMTEQEKTSVVEETR EAVDTTSQPVAT
13714	44082	A	13794	1	2004	MTQQITLIKDKILSDNYFTLHNI TYDLTRKDGEVIRHKREYVDR GNGATILLYNTKKKTVVLRQF RVATWVNGNESGQLIESCAGL LDNDEPEVCIRKEAIEETGYEV GEVRKLFELYMSPGGVTELIHF FIAEYSDNQANARGGVEDEDI EVLELVQCGGQIGVPDVLAVF ATGIGFLAMSVTKPRINAQPYP MPWRNLAQLVEHINRTRIHRNL QFTDAFKRRLIDNICRKNNIIGT HTGQSKFSGQTQQIFGEIPQVVP ASELAAAMKQIKELQRLGKK TMENELLKEAVEYGRAKKWIA HAPLLPGDGERTDDWMDGRRS RHTDDTDVLLRIHHVIGELPTY GYRRVWALLRRQAELDGMPAI NAKRVRIMRQNALLERKPA VPPSKRAHTGRVAVKESNQRW CSDGFEECCDNGERLVRTFALD CCDRLSSRGRNAAKRQRDDP LRWKFRLPSSGKLLMPLDQQ APARFAPFVTCTLTILCGTGHV VYTILPIIYDVAIKNNIRPERPM AASSIGAQMGIHSPSVAVVSL VAMLGNVTFDGRHLEFLDLLAI TIPSTLIGILAIGIFSWFRGKDL KDEEFQKFISVPENREYVYVGT ATLLDKKLPKSNWLAMWIFLG AIAVIALLGADSDLRSSF/GGKP

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13715	44083	A	13795	3	918	DKTRKRRIRQ*IPNATSFLYQNS PNGLSE*LAPAGTWFAAGNAPASS CGFRDRYLIVCSHQTPHVPQGI TVAAPDARAQAILRIVRQLQRF FHRFEGGHRQHRAKNLLEHP HIVLTKQNRREFEADALQPDPA WQQGTLNGLQWQVLTTPQRP SDRVEIRLLVNTGSLAESTQQS GYSHAIPRIALTQSGGLDAAQA RSLWQQGIDPKRPMPPVIVSYD TTLFNLSLPNNRNDLLKEALSY LANATGKLTITPETINHALQSH DMVATLVFRLYKKGWWRYL KGSTLLSHDPAHPLKQPVEAEK
13716	44084	A	13796	1	1368	MCPIEETASSFGGKPLSMVLVIQ MFMLLTGALIHLTKTNPASISK NEVFRSGMIAIVAVYGIWMA ETMFAPACYGYIPTYPSDLA AIQFDRSGTTHIGRFVINHSFILP GLIGVSVSCVFGWIFAAIKRDA AAGRAKENVIFHHFPQSVKAD IATNPFKRPGGAFIRITQTFRTV QTFRLSAYRLDFAGDRLRISTPR AKMRTAFKKDHLRQRRRCIRQ RAPPARHNLVGAVLALPATVAG VNFTFSNVPLDSSVLSLLTDFS TAVGSIVMLAVIMGLMLAFDM GGPVNKVAYAFMLICVAQGVY TVVAIAAVGICIPPLGMGLATLI GRKNFSAEERETGKAALVMGC VGVTEGAIPFAAADPLR/PSFGG KPLSMVLVIQMFMLLTGALIHL TKTNPASISKNEVFRSGMIAIVA VYGIWMAETMFAPACYGYI LPTYPSDLAAIQFDRSGTTHIGR FVINHSFILPGLIGVSVSCVFGWI FAAIKRDAAGRAKENVIFHHF PFQSVKADIATNPFKRPGGAFIR ITQTFRTVQTFRLSAYRLDFAG DRLRISTPRAKMRRTAFKKDHLR QRRRCIRQRAPPARHNLVGAV ALPATVAGVNFTFSNVPLDSSV LSLLTDFSTAVGSIVMLAVIM GLMLAFDMGGPVNKVAYAFM LICVAQGVYTVVAIAAVGICIPP LGMGLATLIGRKNFSAEERETG
13717	44085	A	13797	3	2185	
13718	44086	A	13798	1	920	

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13719	44087	A	13799	251	479	TQRVDWRSRSSISPGDGLHAFP AFGKEGGKMLDRLRERRDVKT LQQSGSAAGAEFALAGAHPTH GTTA*IQQAINV
13720	44088	A	13800	1	939	
13721	44089	A	13801	1	386	
13722	44090	A	13802	3	524	
13723	44091	A	13803	1	548	
13724	44092	B	13804	67	1144	
13725	44093	A	13805	811	974	VSRRIKLDVTEEFARAGDNKRC ICQ*RHGLAERDIARLLVEIVVI WCDIGVIQA
13726	44094	A	13806	1164	1262	
13727	44095	A	13807	2	894	
13728	44096	A	13808	1	1587	MVKEGTFREDLFYRLNVIHLIL PPLRDRREDISLLANHFLQKFSS ENQRDIIDIDPMAmsLLTASW PGNIRELSNVIERAVVMNSGPPII FSEDLPPQIRQPCNAGEVKTA PVGERNLKEEIKRVEKRIHMEVL EQQEGNRTRTALMLGISRRAL MYKLQEYDATGFFRDGMTIMV GGFMGIGTPSRLVEALLESQVR DLTLIANDTAFVDTGIGPLIVNG RVRKVIAshIGTNPETGRRMISG EMDVVLVPQGTlieQIRCGGAG LGGFLNPTGVGTVVEERQTSID TSTRKRPfELGRPSRNNDKGIRP DQALDRKNIRE/ALHDSLKRLQ TDYLDLYQVHWPLRPFYCFGK LGYSWTDSAPAVSQDLTDAL AEYQRAGKIRYIGVSNETAFGV MRYLHLADKHDLPRIVTIQNPY SLLNRSFEVGLAEVSQYEGVEL LAYSCLGFGTLTGKYLNGAKP AGARNTLFSRFTRYSGEQTQKA VAAYVDIARRHGLDPAQMALA FVRRQPFVASTL LGATTMDQL
13729	44097	A	13809	1	618	



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13730	44098	A	13810	80	952	RPGIVALNAILPLSRTRQSKPTR LKKRAIANCAPTWKKRFVALV YRTA*RFPSITLSVAVT*PASAK NKAIKMTQKIEQSQRQERVAA WNRRAECDLAAFQNSPKQTYQ AEKARDRKLCALEEAIIRSG QDGMTVSFHHAFRGGDLTVN MVMDVIAKMGFKNLTLASSSL SDCHAPLVEHIRQGVVTRIYTS GLRGPLAEEISRAYCADSHHGP FAMVNNMTDLTAQEPAWQTR DHLDDPVIGELRNRFPGDAFTV QATRTGVPVWIKREQLLEV GDFLKKLPKPYVMLFDLHGMDE RLRTHREGLPAADFSVFYHLISI DRNRDIMLKVALAENDLHVPT FTKLFPNANWYERETWDLFGIT FDGHPNLRWIP
13731	44099	A	13811	92	735	RLLRPLQPRSSVLPGLTTFHAS STSETRQSKPTRLKKRAIANCA PTWKKRFVALVYRTA*RFPSIT LSVAVT*PCVNIITIGCQVKT VTIATAQIRFTRFNHFSRFQYFR NSPKQTYQAEKARDRKLCA NLEEAIIRSGLDGMTVSFHHA FRGGDLTVNMVMDVIAKMGFKN LTLASSSLSDCHAPLVEHIRQ GVVTRIYTSGLRGPLAEEISRG LLAEPVQIHSHGGRVHLVQNG ELNIDVAFLGVPCDEFGNANGY TGKACCGSLGYAIVDADNAKQ VVMLTEELLPYTDNPEA
13732	44100	A	13812	1	1113	
13733	44101	A	13813	5121	6228	LRRDSGRLRSCWHPRSPTSMGS LGQREDLQDEDRNSGADPGQR GRCSIHLEGPGQPCQLQRAVQ GEGDPVLAKEEIQDQCHPHGQV QLLLVPAAEPVRAVPPRVQPV LPHHHHPAELSGIREE*GNQND AEN*TISTTRTGSGLESSR*M/ SILPLSRTRQSKPTRLKKRAI ANCAPTWKKRFVALVYRTA*RF PSITLSVAVT*PYWSGAPGGPC RRPYCHFRHRGARGSGAPGDG GEAPPAAAFLLGGDVGFGL
13734	44102	A	13814	56	196	CRGDGGKLIQCQRRMGI*PCG* LRQRKAELFQHLPLC*FWRPEI GTVCSGSIDNGSDRLRR
13735	44103	B	13815	64	2373	
13736	44104	A	13816	3	403	
13737	44105	B	13817	55	1040	

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13738	44106	A	13818	587	1533	VLLTAKFFPSMYSPIKTAGGPA ST*VL*MIISIDAEKAFDKIHQPF MLKALNKSENKIPRNPTYNGCE GPLQGELQTTAQGNKRGYKQT QQHDMHMSTKNQYHENGHTA QGMKGITQPSAFIPTAESNSFQP QVKTLPSPIDAKQQLQRKIQKK QQEQKLQSPPLPGESAACKSESA TSNGVTNLPNGNPSILSPQPIGIV VAAVPSPIPVQRTRQLVTSPSP MSSSDGKVLPLNVQSHQNCW WTRFNMSSLNVVKMTTISLTPS NSNTPLKHSASFISATGTTEESR SVPQIKNGSVVSLQSPGSRSSSA GGTSAVEVKVEPETSSDEHPVQ CQENSDEAKAPQTPSALLGQKS NTDGALQKPSNEGVIEIKATKE RRSSPATEQSWMENVFEEQREE GFRRSNHSQIREDSQTKGKEEK RLKELMELKTKVRELREECRSL RSRCDQLEERV SAMDDENEM KREGNFREKRIKRNEQSLQEIW DYVKRPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLARQANI QIQEIQRTP
13739	44107	A	13819	590	817	
13740	44108	A	13820	107	410	KGRNIQLNGPSSRVSLWRSlyf LNLNTGLPC*IGEVLLDNILQSV FQLGSILPITFRYTNQT*IWSFHI VPYFLEALLISFYSFFSKLPFSLH FIHFIFHR
13741	44109	B	13821	1	3735	
13742	44110	A	13822	922	1137	HFFLHFNFGESDNYVSWSFSSR GVSLWRSlyfLNLNVGLPC*IG EVLLDNILQSVFQLGSILHITFR YTNQT
13743	44111	B	13823	1	954	
13744	44112	A	13824	3	156	
13745	44113	A	13825	683	972	SHRLLRLLHSSRSSPGLVSSSISS FKHFSVLVILFTLMIVSFAVQKL FSLIRSHLSILALVAIAFGVLVM KSLPTPMSSMVLSR/SFF*GFYGF FRSYI
13746	44114	C	13826	1	895	
13747	44115	C	13827	372	1727	
13748	44116	A	13828	705	1072	LALLVELIPLPLCNGLLCLF*SL LV*SLFYQRLGLQPLPFFVFHLL GRSSSILLF*AYV*LFWHDFAA AGTGCSFPCLALPSGALVGQA WW*QKSLSICLSVKDFISPSLM KLSLAGYEILG

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13749	44117	A	13829	1	1136	
13750	44118	A	13830	547	675	
13751	44119	B	13831	144	1877	
13752	44120	A	13832	1	441	
13753	44121	A	13833	27	344	
13754	44122	A	13834	287	600	GPGLQSSPLLSPWPRESSPLL LRPSVRGWHLGEP*NCFPSPLA AS/EQAPKRSS*PQCNHR*RETA ARGLAYPPDRPLPSMLSCESPE TPAKAGPGRERGCEKC
13755	44123	A	13835	2	226	
13756	44124	A	13836	2	226	
13757	44125	B	13837	45	518	
13758	44126	B	13838	1	699	
13759	44127	A	13839	3	362	
13760	44128	A	13840	2	130	
13761	44129	A	13841	3	96	
13762	44130	A	13842	1	545	
13763	44131	A	13843	2	144	
13764	44132	A	13844	2	91	
13765	44133	A	13845	1	370	
13766	44134	C	13846	1	214	
13767	44135	A	13847	215	310	
13768	44136	A	13848	2	91	
13769	44137	A	13849	1	289	
13770	44138	A	13850	1	997	
13771	44139	A	13851	1	192	
13772	44140	A	13852	2	267	
13773	44141	A	13853	2	181	
13774	44142	A	13854	1	171	MESYAAIKNDEFMSFVGTWMK LETILSKLSQGQKTKHCMFSL TDVIARRRSWTSI
13775	44143	A	13855	92	244	KRRRRRGQIRKMKEEEGNRRT WMKLETILSKL*QRQKTKHRM FLLIGGN
13776	44144	A	13856	146	382	
13777	44145	B	13857	124	1215	
13778	44146	B	13858	1	628	
13779	44147	A	13859	377	484	
13780	44148	A	13860	2	220	WARTSCLKHQKQWQQKPKLA NGI*LN*RASAQQKKLPSEWTG TWMKLETILSKLLQGQKTKHR MFSLIGGN
13781	44149	A	13861	965	1150	GVDQRAVCSSRIW*SHLFLFHS VVVHLPWAGTWMKLETILSK LSQGQKTRHRMFSLIGGN
13782	44150	A	13862	254	571	YSYKLEIIIIGKQPEIYRDP CYRP AV*SQTAVLAISEAPWA*DLPS QVSDTISWWTVC*AHWKS AVL GWE*PGFPGTWMKLETVSLSK LSQGQKTKHHMFSLIGGN

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13783	44151	A	13863	62	214	
13784	44152	A	13864	274	435	
13785	44153	A	13865	1	294	ASTAGVSYYVAQAGLKLLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSLYIYFFLDEFM YFAGTWMKLETIILSKLSQGQK TKHRMFSLVGGN
13786	44154	A	13866	663	1266	PPLTCQCSHLCVTLVGH/WIKLE TIILSKLSQGQKTKHRVFSLIGG AGALAKECMSLYPGCKITVFDI PEVVWTAKQHFSFQEEQIDFQ EGDFFKDPLPEADLYILARVLH DWADGKCSHLLERIYHTCKPG GGILVIESLLDEDRRGPLLTLQLY SLNMLVQTEGQERTPTHYHML LSSAGFRDFQFKKTGAIYDAIL
13787	44155	A	13867	1	681	
13788	44156	A	13868	1	247	
13789	44157	A	13869	2	178	
13790	44158	B	13870	1	2042	
13791	44159	A	13871	1	378	
13792	44160	A	13872	1	683	
13793	44161	A	13873	1	972	
13794	44162	A	13874	308	406	
13795	44163	C	13875	177	653	
13796	44164	A	13876	1	465	
13797	44165	A	13877	3	1175	FFSSQAAALLVVLGSSHTLQRA RKHSAPGLPDTCALLQPPAASA AAAPSMSPDVPETPSAIQICRIM RPDDANVAGNVHGGTILKMIE EAGAIISTRHCNSQNGERCVA LARVERTDFLSPMCIGEVAVHS AEITYTSKHSVEVQVNVMS ENI LTGAKKLTNKATLWYVPLSLK NVDKVLEVPPVVYSRQEQEEE GRKRYEAQKLERMETKWRNG DIVQPVLNPEPNTVSYSQSSLIH LVGPSDCTLHGFVHGGVTMKL MDEVAGIVAARHCKTNIVTAS VDAINFHDKIRKGCVITISGRMT FTASN\NSMRFKVLLDPAPVVD SFQKRYRGRQCLSST*VSLSQER QV/PLPVPQLVP\ETEDEKKRF\E EGKGRYLQMK\AKR\QGHAE PQ
13798	44166	A	13878	121	361	SLFELENRSKFSVATAGLVPSR RLSINCIRRAFITSSNGFPLWFCL HKGPDVDCCVAVY*CGTEDGS WAPTHPGVGPSLP
13799	44167	A	13879	1	462	

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13800	44168	A	13880	3	287	PCSLSSDCCASNQRDSVGIGPSE PRVGYNILVIRFLSPSEKRSR\V GVTRFSSAWEPSQLAGILPISEP PSNRIFACWGKPAWTACCNSLR ARR
13801	44169	A	13881	1	1332	
13802	44170	A	13882	1	753	
13803	44171	A	13883	1	516	
13804	44172	A	13884	71	277	IYFNTQESFCPPRPLK/LCDGRG CHKGL*NAFKAFSPFSWPLALG SFLLMQISAACLNSFPENGLFFS TT
13805	44173	B	13885	1	1095	
13806	44174	A	13886	1	741	
13807	44175	A	13887	264	2880	WLLQKHKLHVSRLGL\PDTSW ILPSRPDAGGRFPRTPPCVLVV HKPSRHCREWTANTVLPKGAL AKWLLEPKADLQGWHLPADG QYTKPSISYNIKLYINCYNRTVT TAAQHQQVQRKHGASIFLAEN VAVREKDKEERKVTRAPTEQA WTAGSWIETAYREIKGVGQES VCITVMHLEELVYELAWIIMSA VVEAFDPVAPSSKCRNLNPD YCCTPYTLHTSPPPPPSCCTPYT LHTGPPPQTPFCCTPYTLDTSPS PQTHSCCTPYTLHTVPTFHLPA AHPIHLHTIPPPQTQGGGFVSED EYLEISDIKRDQSGEYECALND VAAPDVRKVKITVNYPPYISKA KNTGVSVGQKGILSCEASAVP MAEFQWFKEETRLATGLDGM IENKGRMSTLTFFNVSEKDYGN YTCVATNKLGNNTASITLYVD HIVGSKALLSKCKRTEITNYLS DHSAIKLELRIKNLTQNHSTTW KLNNPLLNDYVVHNEMKAEIK MFFETNKNKDDTYQNLWDAFK AVCRGKFIALNAHKRKQERSKI DTLTSQLELEKQEQTSHKANR RQEITKIRAELEIETQKTLOKI NESRSWFFERINKIDRLRLIK KKREKNQIDAIKNDKGDITTY TEIQTIREYYKHLAYANKLENL EEMDKFLDTYTLPRLNQEEVES QNRPITGSEIVAIINSLPTKKSPG

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13808	44176	A	13888	1	629	AMAGSPPPASLLPCNLISDCCAS NQRDSVGVGPSEPGVGYSLVV RRFLSPSEKRSIRVGVTRFSRCR PSPLSLTQKGNSLTSWASQVLT PAPEKQPDNKLPLPRRGSRDPT EYFHGQEVDRKSDHVDHVSQ IHSFRDEVKRLGAEDSSNAETP TELHEFNTGGVYRPPNSTSVIQP LDQGVIRTFKPCYTKYSLEKIVS AVEENPDRT
13809	44177	A	13889	1	1452	
13810	44178	A	13890	167	309	
13811	44179	A	13891	3	386	SVGALQKQQGWHQRCISLHF PSFLCVFSLAKSRRADHNQDPR ASRMAFSLTSSPLARSAASAVA AFGCGTSGNGRFSSVP*AYRQV FQRIAIAYGPLMRDR*AHPVK TPDAIDCRIRQPAIPRLQ
13812	44180	B	13892	121	298	
13813	44181	A	13893	473	1826	
13814	44182	A	13894	1	270	
13815	44183	A	13895	3	3706	
13816	44184	A	13896	1	1464	
13817	44185	B	13897	591	729	
13818	44186	A	13898	1	1326	
13819	44187	A	13899	1	1152	

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13820	44188	A	13900	1	2524	MREEFAHRWRLARAGEKTPPDA LEKLTDPMLFAAAMVSAGKAD VCIAGNLSSTANVLRAGLRIIGL QPGCKTLSSIFLMLPQYSGPAL GFADCSVVPQPTAAQLADIALA SAETWRAITGEEPRVAMLSFSS NGSARHPCVANVQQATEIVRE RAPKLVDGELQFDAAFVPEV AAQKAPASPLQGKANVMVFPS LEAGNIGYKIAQRLGGYRAVGP LIQGLAAPMHDLSPCIAATDAG SAAAQRIGDLVSVHVIPRPHVD LEQVFPIGLKAYTATCNHPVSL RFTIKSSSDRIKLSNQTLQSKNL FIMRFYCFSLCLSLSAFYHCRGV IVNIQAVFWLQKGTEAADILTT CAQLWIMMYALLSVFSLLDVIL NLAQKFPAASQLPLKGIFQGIKL IGAILVGILMISLLIGQSPAILISG LGAMAAVLMMLVFKDPILGLVA VRNWDNTITTIPTWSLVSDSFK NWSGMSASGGRRIKRSISIDVTS IRFLDEDEMQRNLKAHLLKPYL TSRHQEINEWNRQQGSTESVLN LRRMTNIGTFRAYLNEYLRNHP RIRKDMTLMVRQLAPGDNGLP LEIYAFTNTVVWLEYESIQADIF DHIFAIVEEFGRLRHQSPGTNDI RSLAGVTINKAPGDDEILKNTV DFVSFSYYASRCASAEMNANN SSAANVVKSLRNPYLQVSDWG WGIDPLGLRITMNMMDRYQK
13821	44189	A	13901	1	2370	
13822	44190	A	13902	1	282	
13823	44191	A	13903	1	714	
13824	44192	A	13904	3	506	
13825	44193	A	13905	459	551	
13826	44194	A	13906	401	492	
13827	44195	B	13907	479	702	
13828	44196	A	13908	120	256	

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13829	44197	A	13909	16	1249	SKSGAIEIARLAGRVHGVVVQI TSEIGPLTLLTANFAFSAS*STA WKATSMEDGEVLS*YSTSASAS AERQSTHQ*TGFAPLCR*PLPMI /VAQRADDVGFSFEVHGQVRV RPVAQHAQTDKVFALTVDLGR RVFAALGAELGGARSAVRPVP ECYAVRETLALLQKIFIRQCEN SVYRNRSRPCLQYQIGRCLGPC VEGLVSEEEYAQQVEYVRLFLS GKDDQVLTQLISRMETASQNLE FEEAARIRDQIQAVRRVTEKQF VSNTGDDLDVIGVAFDAGMAC VHVLFIHQGKVLGSRSYFPKVP GGTELSEVVETVVGQFYLQGSQ MRTLPGEILLDFNLSDKTLLAD SLSELAGRQINVQTKPRGDRAR YLKLARTYAATALTSNFRSIYR SPATDRACQRVETAGNER
13830	44198	A	13910	1	438	
13831	44199	A	13911	1	1200	
13832	44200	A	13912	1	300	
13833	44201	A	13913	1	431	
13834	44202	A	13914	2	1465	
13835	44203	A	13915	1	513	
13836	44204	A	13916	3	535	RDKILVFKDENFWMIRGYAVLP DYPKSIHTLGFPGRVKKIDA CDKTTRKTYFFVGIWCWRFDE MTQTMÆKGFPQRVVKHFP RVDAAFQYKGGFFFSRGS YDIKTKNITRIMRTNTWFQCKE PKNSSFGFDINKEKAHSGGIKIL YHKSLSLFIQVHLLKNTSIYQ
13837	44205	A	13917	1	876	
13838	44206	A	13918	23	414	
13839	44207	A	13919	2	425	QERGP HQVIQRKECLREYSPVV S*AKGTGVAVGQKGT LQCEAS AVSSAEFWYKDDKRLIEGNK GVKVENRPFLSKLIFFNVSEHD YGNYSVASNKLGHNTASIML FGPGAVSEVSNGTSRRAGCVW LLPLLVLRLLLKF
13840	44208	A	13920	1025	1270	
13841	44209	A	13921	370	701	
13842	44210	B	13922	1	660	



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13843	44211	A	13923	1	432	RFSRVDDFVLTMDDGPPRRAR GDLTHSGLWRVCCIEGIYKGHC FRINHFPEDNDYDHSSEYLLRI VRASSVPILSTILLGLGICGA GRIYSRKNNIVLSAGILFVAAGL SNIVGIIVYISSNTGDPSPDKRDE DK*NHYN
13844	44212	A	13924	1	1093	
13845	44213	A	13925	1	1203	
13846	44214	A	13926	1	1353	
13847	44215	A	13927	2	445	
13848	44216	A	13928	1	227	
13849	44217	A	13929	1	840	
13850	44218	C	13930	120	356	
13851	44219	A	13931	40	342	
13852	44220	B	13932	403	473	
13853	44221	A	13933	70	2169	
13854	44222	A	13934	1428	1905	RCAATSGYGERVQRTV/PTHTV W*ASLSQSSAHRVVAINSIANK RSSMPPKSWATVALTSTKLKCR FMAKVRNKSFSVLHNV*MTISI/ SPWVILSSGVDEKLFPRAVRVA MTAGASGFLAGRAVWASVVG LPDNELMLRDVCAPKLQQLGDI VDEMMAKRR
13855	44223	A	13935	227	342	VHSWQRYSGR*RGY*PQNQSA TDQTRRWQSLKTAGAVA
13856	44224	A	13936	480	928	FFADLQPPVCADSYPPLVQMK LAPHKS*NAVLWQRSATKSFSV L/AQGLNDHINMPWVILSSGVD EKLFPRAVRVAMTAGASGFLA GRAVWASVVGLPDNELMLRD VCAPKLQQLGDIVDEMMAKRR FIPLLRWVDLALTRWLITVSK
13857	44225	A	13937	564	1185	WLHASAALLRW*YQLPGQPHH RRCRSADGSHVPSLCAAVPDQR PLITVRRIGMQAMTTSTTGDRQ RSWQIAMDGSQKLPQRM LDSV RWHLAHD SKFDLLALGVAGW MRYVGGVDEQGNPIEISDLLN RMAANRFVHITQLPVIYRAFRN SFTQVARLQLCHKRFQQRHTSV REQIVTVLSGIRDNHVHFVQTL TGDGVGNQRQLVQ
13858	44226	A	13938	228	424	HRFCPAARH/RSWSGLREMAVS ISMPRIINSGRYCAICWYKRRS RCARNMLIFPVARSTPIGPS
13859	44227	B	13939	128	1670	
13860	44228	A	13940	2	2367	

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13861	44229	A	13941	1	921	ELPASPAPCARTPQPLGGRWEA ARRKERVLCFLFDVDGTLTPAR/ QGRTLKIGSSHRECHADTPEAE CGVCSSVTEVRAKWRSQTC*KP ECYASPLPP*KIDPEVA AFLQKL RSSYLPVGSQTWSHTLSSSCPLC DPEVIGRDTVPVSGSGSPGHAQ SPVFLGQTIQNHLPGGARFEF RA/CSGSLWLPALPHHARGTFIEF RNGNCVPSQGLAHSRSELPSA PSPLQKEQAALLLALSAPPSRE* QSPPLPTGGMISFDVFPEGWDK QVRSSQCGEGLHNLNIPPLPILCV QGGNDFEIFADPRTVGHs
13862	44230	A	13942	105	416	HSVLEVGPWWEVFGSWGQILH SLVSSHVRHWLLPSPSAMTES SLTFQQKPSRCQHASKAYHS HQLLLVPTAGRLED RSHH*IPC KHSPAPAWSLAAPVGN
13863	44231	A	13943	191	573	SSSGGYQQLMRVIGTRDTAV NKASNVPSFGA*/IPSGRGQQA LIALTRALTLAKELHVN IYADC KYAFHILHQHDVIWAERGFLT VQGSSSIINASLIKTLKATLLPKE AGVIHYKKGHKASAPIA
13864	44232	A	13944	1	1065	
13865	44233	A	13945	321	537	
13866	44234	A	13946	346	1260	GGPARAEFSRHLGCKGHHPLPK DVASEVPAGSSTS VSSLIRTNGC PGLGSWEPP*FFSENKRLSTLMS FTLRDSKMFSPQSGLF LGCSAG EHSALRDPTASGLPGTASGVRP GR/RQRVGSDIEASTQGESKPCI LSI*TLPNA*LKTKLTLPLEIAAC TNPHSFSITARIGPAHLAAPRPV TPAGRGGARAPGR*CAAARPPP ASQ*VSGSPAPGGG PSYAPAAR TS*PSSLAPGAKRLRFSRVATFC CSFLAWSSSSNKAFCT*EHMSL LSSWISQSLEKVASCCPCEQFDS WKRLNILLFS
13867	44235	B	13947	1	459	

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13868	44236	A	13948	63	1263	VEAAKKAHHAACKEEKLAISR EANSKADPSLRPQAHTYALSPL FLTAMPSV*QGEHVIYTRVRHS DQVSESSGKPLSLPLLEPGIWAF EAAQVPPRWDQVRSLEPTTEW EAPGLKKRRVSQGLNGNEPLSC AWIFL*TKEKYEKSLKELDQGT PQYMENMEQVFEQCQQFEEKR LGWDKG*LAPAF*KSHVSL*FS YKAIYHDLEQSIRAADAVE/DR RGFARK**TFGFSPSAPVA*EWS ADLNRTLSRREKKATDCQDP HGPLQSWDPLKALSLHSTLNVP SNPAQSAQSQSSYNPRGPHTLC RPVLRALWPPLSCSVSSYEKTQ SYPTDWSDDENNPFSSTDANG DSNPFDDDATSGTEVLCSPPSV SYLSWRRLPLCLAGDELTKME DEDEQGWCK
13869	44237	A	13949	2	485	AAAFGTRLSRRGRGCGVTGSG GGRRRVPAAPRRPRSPLOPPHQ/P PRRPSRRTPGCGSRGA\PSRGRR LVPPPEPPRAAQQRARH\HRTS RPAARQPPRRPPAQPRSCPRRV RPTPAWSPPGRRGPRRSRRRRR RGGRARARRPRRGQVPRPQS ATGAGHAR
13870	44238	A	13950	1	207	
13871	44239	B	13951	1	5297	
13872	44240	B	13952	1206	1360	
13873	44241	A	13953	46	369	NEGKNAKGSQRERSGYPQREA HQTNSGSLGRNPTSQKRVGANI QHS*RKEFSTQHFISSTKLHK* RRNKILYRQANAERFCHHQEGS TKHGKEQVPAAAKSCQNVK
13874	44242	A	13954	476	868	KYDCCISSTFCRALVHFSRTTFQ VNSPLSPNISAFGYMPLKYSIYF LHHLRPNIL*AASYFLKYKGT KLPALRGCLS*STRCWCKIHICI *ND/ECLQFLGPWFENEFCFLPS TSQFVEFVLDILVLQNEP

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13875	44243	A	13955	1770	3003	PANIIMTGS\NSHITILTLNVNG\LNAPI*RHRPAIA/S/WLKSQDPSVV\CIQETHLTCRDTHRLEIKGWRNIYQANGKQKKAGVAILVSDKTDFKPTKIKRDKEGHYIMAKGSIQEEELTILNIYAPNTGAPRFIKQVLSDLQRDLDAHTIIMGDFNTPLSTLDRSTRQKVNKDIQELDSALHQADLIDIYRTLHPKSTEYTFFSAPHHTYSKTDHIVGSKALLSKCKRTETITNCLSDHSAIKLELRIKKLTQNH SATWKLNSLLNDYVWHNKMKAIEIKMFFETNENKDTAYQNLWDTFAVCRGKFIALNAHKRKQERSKIDILTSQKE LKKQEQTNSKATRRQEITKIRAE LKEIETQKTLQKKQPNKDPAMEKNNKTDRVLARLIKKKREKN EFSAHILYKFSKQNGS
13876	44244	A	13956	105	392	RSRKPRGNPKSHPEDTDPTKAPRKRQISSRGHRSHR*EPGPQSAAPGFREQRRRGQMG*IWYLTPTPPGGQRSSAASPRGFPTNNSRLPAEPE
13877	44245	A	13957	55	403	SEGMSGKASEKQEAFCPRHLT RAVDGPS*SGLLGSRLPPSCSPGKEAPGGSELYLCLMRGLQTL*ARSGTGRL/PNP AEIR*EPGPQSAAPGFREQRRRGQMG*IWYLTPTPPGGQ
13878	44246	A	13958	217	444	RSRKPRGNPKSHPEDTDPTKAPRKRQISSRGHQSHR*EPGPQSAAPGFREQRRRGQMG*1*TPCRPALPKSKPRPL
13879	44247	A	13959	309	670	PCPRASSQGLKATH\GQR*SSEPPGASFPGQLDGGRRREPRRPD*DGPSTGLVRCLGHANVGDPCLKVFVFFKNLSPTYLRASAEQTLPLLLPHLHGLCLHQPLHLGFTAAWAQLTFWEASQ
13880	44248	C	13960	392	760	

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13881	44249	A	13961	24	915	HAGRHARGSLFPGARPSETRAH CVRTARPNCKEEDTPMVRGKN SGGEHCTWGPSLAAGG*GIGDP GGLPGT\PHPGQLLLHGFAGP HMASLCCGVSSPAGVRQWPA* GSGNHQVKS WLGLPKNV*AP SML*NPKMQRLMKAQPHGRCE VRRGRVCSALGP/IGMSGKASE KQEA*DEGHPHLHAPGT*QDQ VDGPS*SGLLGSRLLPSCSPGKE APGGSELYLCLMRGLQTL*ARS GTGLRANPAIR*EPGPQSAAP GFREQRRRGQMG*IWYLTPTPP GGQRPSSAASPRGFPLV
13882	44250	A	13962	397	612	RPQHHTFCCDGRVMMARQKGI FYLTFLILGTCTLFFAFE/CSFG *VELPDYGYFGSRGRTCFGLSL GLVLG
13883	44251	A	13963	125	1298	FQSWAQPLFLLSCNRKTHFGTR IP\MSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGIF\ YLTLFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSM\AT L\LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGQRPPIRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHC PW VGNCVGRNRYRYFYLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLCFFTLWSV VGLTGFHTFLVALNQTTNEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLGGLPPSVLDRRGILPLE ESGSRPPSTQETSSSLLPQSPAPT EHLNSNEMPEDSSSTEEMPPPEP PEPPQEAAEA EK
13884	44252	A	13964	44	647	DYSAQH GKASQKHVARLISSGT FQGATVSRPFQLSTSSSSFCSSSS SLSSSSSLSSSLLSCSSES VFLS LSFFFCSEASFLPFCSRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFPFI AKLLAQDVAYSTKT LAAREIGAPGLLDGVDVTVREL R GDRG*AKLPFQHLLPSCPFVRPP RAAHRLLDDPGDHGIGQV
13885	44253	B	13965	158	1075	

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13886	44254	A	13966	125	1297	FQSWAQPLFLLSCNRKTHFGTR IPIMMSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGIF\ YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSMAT L/LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGQRPPRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHC PW VGNCVGKRNRYFYLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLI CFFTLWSV VGLTGFHTFLVALNQTTNEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLCGPLPPSVLDRRGILPLE ESGSRPPSTQETSSSLPQSPAPT EHLNSNEMPEDSSTPEEMPPEP PEPPQEAAEAEK
13887	44255	A	13967	247	850	DYSAQH GKASQKHVARLISSGT FQGATVSRPFQLSTSSSSFCSSSS SLSSSSSLSSLLSCSSES VFLS LSFFFCSEASFLPFC SRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFPFI AKLLAQDVAYSTKT LAAREIGAPGLLDVDTVREL R GDRG*AKLPFQHLLPSCPFVRPP RAAHRLLDDPGDHGIGQV
13888	44256	B	13968	298	380	
13889	44257	A	13969	48	252	QRAGSPHSPRSL SAPPLPELPLW RHLRSPSAHRCTVGAPFWDGQ G/LEPAPSAALAAFP RSARDLQ LA
13890	44258	B	13970	1	447	
13891	44259	A	13971	236	559	MWLEPMQMGLHMM EKMAA RTSAILD*GTLK*FHFTLTTS LK ALSSHTPIFPGTGELQLPVSPSV CLDQGMQLKPSTSSHLLKTVKP RMKRQSLHMKQSFE PKIYL
13892	44260	A	13972	1	645	MKPQTLTVSVTAFKVAHLEFVP SDVQMCSEFLPSGGFVVS LASG VKLQTF AVSFTA HKSSVDPKNS EAQLASPSGFCTRAADGAACQS \LPCTCTPQPLGGRWDWALWS RGW/LLVEEA WAAQEPT EELRE RALALASPERGSHSA AVGQRAP QVPPKWEPRQRRRRERARAVR TASTLSPLNPPSKQDTLTAVGN LADDHSSYFLLD RGEEGALQL
13893	44261	A	13973	28	322	
13894	44262	A	13974	1760	4426	
13895	44263	B	13975	942	3414	

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13896	44264	A	13976	1	274	
13897	44265	A	13977	545	1150	RISGPGAVLLPVMPALWRLRHR MFSLTKK*HLP AHRSLAEGYLL YQPQLDTLKARLTQKYQELQV LFEAYQIKKTKLDRQSSASLET LLALLQAEGAKIEEDTENMAEK FLDGELPLDSFIDVYQSKRKLA HMRRVKIEKLQEMVLKGQRL/S TRPWPRCPPGCPNWHLP PPFPT LPQSQWASCRCTSAHPPPTTPG AAGRL
13898	44266	B	13978	213	611	
13899	44267	A	13979	1	639	MEAVTVVPVGTEEGMGEEEQD SGTTTGCGLP SVEKMLATNPGK TPISLLQKYGTRIGK/TPVYYLL KAEG\HQPNTFW\VGNTSCT AQGPRKKVVKHKA AEVALRHL KVESMLEPAPEDSSSFPLDSSL PEDFPVFTAAAAATPVSSVFLT RSTPMEKQPPLP\QQSECIPVG ALQKL VVQKGWWLPEHTVT*E SRPDQHEELT*RVERFT
13900	44268	A	13980	361	894	AFFPMSTAGVCGNVEGEPETP WSLPLSQVPFSPNA/CPQGT LGR S*AGVAGAPGPGVPGRSPAA\GI PEPAARPGRPALSRLPGLGGAG ARSGAA*G*GSRPGG/PLPAADP VQSWG P*EAPSH P*PGT\SADSP PSGVSGATGDCLWGSGRAELF GFATTSSAAPFPGLPTFFFIPVSP
13901	44269	B	13981	1	3842	
13902	44270	A	13982	3	407	DAWAAARPGRSCALPPPGA/PE EPGHVPGAA*G*GSRPGGRFQL PDPVQSWG P*EAPSH P*PRNFPQ TRRH LGVKQHGC SQSPHGSRA SQAHPGISGLF/GPHHPGPPLFIH GPRCCAQATASNHLFACGTSS DP
13903	44271	C	13983	127	297	
13904	44272	A	13984	3	1920	

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13905	44273	A	13985	3	2271	GQGRRTAGGGGGGAGVAG AGAMEAERGPERRPAERSSPGQ TPEEGAQALAEFAALHVWSGE GIGVGSPAHTPADGNSGPQVFD AGEVFGIMQVEEVEEEDEAAR EVRKQQPNPLAPPTSLCPMPTR QPHIVACARSIFLIDHAWTCRV EHARQQLQQVPGLLHRMANL MGIEFHGELPIWVPEGSSGGW MGEREVPYVLCLQTAEKMPV WYIMDEFGSRIQHADVPSFATA PLEEGPQPSVPSPPLMGTH/DL GTEEVTRDFAYGETDPLIRKCM LPLSSSHRGMETPCVHTSRASL PLQACELPSWSLLINEPPRPAF PSLP*PHLYFRCVSF*AIPGLVLE SRLDTWEPGSPSSGSPHRVYTD VQQVASSLTHPALPVRASRHC PPLELAHLPPPCRKLSQERPGVL LNQFPCENLLTVKDCLASIARR AGGPEGPPWWVLGWHLGTQ APGAPQTALLPRGEDNHWICK PWNLGLCVLGSPLGCPGHQR ACTCVLQVVSKYIESPVFLRE DVGKVKFDIRYIVGGTSLAGTR PLKNPYVSAHLSSRAFAQGRRG RGGPTWSGWLLARDPARV*DL LSSLVHSVERCPMQWALSEWQ LHHLSTWSSGLCGLAG**VFQM HRTPTPP**QAACSRPSGGLYR A*WALCLLPGAADPLLRCSEQ AS*LRLPGPQAEIFRAFTQLFQV
13906	44274	A	13986	1	600	MEEQRVQFTLWLHFSPHGICQF ESGRQEAKKLKSGSQPLKTGEI KTGIQKYRREALQHYLGPASL AGRSKALTGTAERSCSSGSDSSI FTLCVNYNDSRAIMKTAAIGT GFDCASKAEIQLVQILGMPPER FMYANSCKQMSQIKYTANNGV QMMIFGNEVKLMSVARTHSKQ P/CHISVKSGAMLKASRLLE*A KEL
13907	44275	B	13987	1	2040	
13908	44276	A	13988	205	438	LYFLETGVFCVQVPAQQC*CSV PGSCRRPLEEAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLS



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13909	44277	A	13989	284	632	KTGVFCVPGPRPTVLM*CSFVG GKKNQYCLTGDAGCLQEKHSL GPAGV/HLEEAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSPFEP
13910	44278	A	13990	594	1003	VRKGHHA VRGLCGRAQFRCIS GDPGKRPLG/LPGGNAPKSGSL ARRPQVRI PGSRPQ/RGSVSHL GPAGVH*R/RAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSPFEP
13911	44279	A	13991	1	1500	VRVAHIPIAAA EIAAIPDRGGHL SVGKRKLTFWFFYGVLPFRDV AIEFSPEEWECLDSAQQHLHRD AMLENYGNLVSLAAGDQSLPG DAAASAVCRQLSPSACGAILGL PPVNGVAPVRLRGEIVTYTWSQ LTGLALALSKDGADGLRRLTRP TRRAPALLAPQTAAERWRG KCDPRHGGGCALALQGWTLYP RESPRESKELGGLWSFRADLD SRRQGFEEQWYPRPLRELGRG GRRPEARRWEGGSPGPCRLPL SAPELAPYRKLKVNLRGAGL GDGETGGTGEGRGRRRKRC RTLSRDEGFNDICQDWLRF VGWVLYEQEVTLPQWQHLR TRVVLRIASAHSYATVVSARS RQGRGIGGLIYTLGMPFFLSGW QVPEPHAAGYVRECLIAGPLLM P/TTCCPLLISPVS AVGEWGRHA RA*GADSSSLVQNTDFDFNYA GLQR\SVLLYTTLTTYIDITITT GVEHDSA EIPFPEYLRVNTGN
13912	44280	A	13992	2	307	
13913	44281	A	13993	220	427	MSTLPFPSLQMFRPPYGPSTC RSQDNRSYSRVTEELQERRRW NSGDAN*DQSP EARRQRPRHIE EAA

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13914	44282	A	13994	1	2832	MGKYYTQGDKVLMLAIQVH HAVCDGFHVGRMLNELQQYC DEWQGGAYPKGYFVQNTDFDF FNYAGLQRSVLLYTTPITYIDDI TITTGVEHDSAAAPMVDSLIR VGVMARGNAITLPCGRDVKF TLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLIPSFLTGTQ QTPAFGRRVSGVIEIADGSRRR KAAALTESDYRVLVGELDDDEQ MAALSRLGNDYRPTSAYERGQ RYASRLQNEFAGNISALADA
13915	44283	A	13995	1	2934	MITFDFMSHIQVTLMQEVSFHG LGQLRPCGFAGYSPPPGCFHRL ASSVCSFSRCTVQAAVDLPFWG LEGTSPLLAASLGSAPVGTLCG GSDPTFPSWTALADVLHEEGHT PASNFCLRNLAGESQSWRKE GLGTPRPTASSTEELQTLNEDSR LMTSPHNLEETRDCTELPKKS LGWKEIRVYGQNKTLGFWLQA QLLICDGGNLRMFRLLPYGPS TCRSQDNRGYGGVTEELMERK RWNSTDGFHIQGVLE
13916	44284	A	13996	68	425	SHILPGAPGAPAWWTRWPSTLP EPFPRGRGSPAGTSPISRPLVQ SS*ASRGSDSRLPV/GPASCQAS GPGPDSRRPPCTPA/GPHHGSL PSAGRVGASAAAAGPPSPA VPL PPAERPAP
13917	44285	A	13997	324	723	TAFSLNFQGGVEGEVWAGTRA ARGACAGERGLGGSRTSGW/P GTAGPGQAGHGTCSLPCPSLPP AMGSCVSEPPRQAPPPAPWRLV PSTAQGLRSVGTQCGTGSSAC GPCGDPGF*THQSAPCQNGPIS SL
13918	44286	A	14000	39	383	

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13919	44287	A	14001	181	1446	EDLLQEAQALAEVTAQGKGLG QVRSLDLSLEACAGSPPLQVLD LQDREPRSLTSLPSSAANRGKL EKAQSNPCGHRRHQAAGLKLP LFSAQAPQGQPTPAPRFRAATR KPGTAQSHAPLWSPAMSFPEL YFNVDNGYLEGLVRGLK/ALGE LSQADYLNLVQCETLEDLKLHL QSTDYGNFLANEASPLTVSV\ID DRLKE\KMOV\VEFRPHEGTMPY EPTSPSFP*TSITLQFT*FDNVI/L WLIHRARLHQRSIAELVPQVAH PLG\SFEQMEAVNIAQTPAELY NAILVDTPLAFFQDCISEQDLD EMNIEIIRNTLYKAYLESFYKFC TLLGGTTADAMCPI\LEFE\NR RAFINT\INFFG\TKTVPKKDRCP AFFPH/CGAGFFPEGPAAMGFG LNNLLTGAKKRGPNFPEVQL AFLRGDG
13920	44288	A	14002	1	1182	
13921	44289	A	14003	26	342	ARFLAGP*LPSRRTGLRDLQPA MPEPP\PTWAPVRPEPPRRAPP PAPRRPVPSTGKEQTTQGLRSA GAGHRDWQAAPPAAPVRDPLG EASWAPESGGDVESLYV
13922	44290	A	14004	66	463	
13923	44291	A	14005	3	1446	
13924	44292	A	14006	221	852	NSFLMVGFPPFFSL/CAAFDTKT GLRVAVKKLSRPFLRPDGYYTE FNIYLLFNFYILTSSAV*VVLSH SVVIECLLSIRHCSRYFRKSSD KNFLRGSRLLCNFSLSIRYLVT LMGADLNNIV*RYR*YK**FFK MNSPFLPLPVGGELIMHHKVDP VCFVFFSLPVSKS*QFVCSSAL *ILDFGLARHTDDEMTAKGQPE CFVRWACAS
13925	44293	A	14007	55	784	RHIQDPASQRLTWNKSPKSVLV IKKMRDASLLQPFKELCTHLM ARGAGGGHDARSLTTAPVSRE PPCRRVGSAGGMSRLALCFQEN MIVYVEKKVLEDPAIASDESFG AVKKKCFCTFREDYDDISNQIDFI ICLGGDGTLLYASSLF/QGNAA VVLRSRLKVRVVKELRGKKT VHNGLGEGKSQAAGLDMDVG KQAMQYQVLNEVVIDRGPSSY LSNVDVYLDGHLITTVQGDGVI VSTPTG

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13926	44294	A	14008	155	1592	PESRHQCFSDRSANFLTMEMEQ EKMTMNKELSPDAAAYCCSAC H\GDETWSYNHPIRGRAKSRSL SASPALGSTKEIRRTSLHGPCP VTTFGPKACVLQNPQTIMHIQD PASQRLHVEQRPPRTVLVIKKM RDASLLQPFKELCTHLMENMI VYVEKKVLEDPAIASDE\SFGA VKKKFCTFREDYDDISNQIDFII CLGVDGTLLYASSLFPQPSPP VMAFHLGSLGFL\TPISFENFQS QVTQVIEGNASCCSSGSRLKGQ GW*RSLRGKKA\VNGLGEK G\SQACRPGTMDVGKA/QAMQ VPRS*NEV\VIDRGPSSYLSNVD VYLDGHLITTVQDGKARSTV LGP*ASLGRE*RLRLSLSGVIVS TPTGSTAYAAAAGASMIHPNV AIMITPISRSVLPTAGGPHLSLL DPQIMLSPEARNAGGGPFWKP WLRLLSRPSISITTSCYPLPSIC VRDPVSDWFESLAQCLHWN
13927	44295	A	14009	327	466	
13928	44296	A	14010	2	196	
13929	44297	A	14011	923	1776	WRKCGCETAGSASATRAAATE KMEAPRNKMCRDQENSAWRN AVPGP*E*RQPEEFPRTTSLAEP TVLSRRKCRPSEKRGSA TEKFG ATSAVTENPPLGAAGERANKTL GAATVTPTLGPRPRMEKGGTR CPSTL*PSVQERQPESPSGNHPE TQKIEFAGRRVTFQHRWATTLR TRISGTGASPRDRSAFFGFPWC G/AAQPSDEESTPATQEEAQAQ AGVAAAASSEEPGHCAPRPPHA PRSALFEDWSREPERSDDGDL ECRRPATEPWRPPGSAWRLPCA A
13930	44298	A	14012	568	1223	SARGLLPGSGPLSHAGPQLQVE WFGCLPPPDSTLELVCGTVAI SRVRMSAVCVLRTWS\RNAG\Q LI\CFTVFQPCSNVHVL/KGPNY VCFFG\YPSF\KYSHPHNFKTI NAVCGQLVQFRFPDTEEGIRK VTV/KCYVKEGDTV SQFDNIGK VQSDKASVT\IASPYDGI/RKL* HSLDDIAYVGKPLVNIETEALK GTVNLFYQIDYCPPFVIGSQLK

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13931	44299	A	14013	5	296	LFSRVPSKGPPRYHHTSSRG*TR AD*LISS\GNS*AHCIPSGLQGM LNLLPTPRAPVRPEPPRRAPPPA PRRPVPFDHPRACGTGRQLHLQ PRCGIH
13932	44300	A	14014	1	376	MQAVLLTVLQKHNSVIYWY MKYIYYEGLVIMDDYDYVIMD YMTMETEKSHDLQAGGPGKPV VQFQFKPKILQASRGNGVKSWS KSKGLRTRCANVQGQENREGP AKHSPFLCLFVLFSSSTGRMIPN HTGDTSKVIAGTEERGVPKKVT LKFDACAAIDRPWAHQLDCTY HFKGSNDEHDSRLHTNAG*L*L C/RLWIT*LWRLRNPMICRLEA QESQWYSFSSSPKCKPVEAMA LSPGPSPKA*EPGVLMASKGRKI GRAQLSIHLSSAFLFFSAPQQVE
13933	44301	A	14015	1638	2289	VEKKKKPMSAPALRLPDLTKLF TLYVSETKKMAVRVLTQTVGP WPRPVALLSKQLDEVSKRWPP CPKSLVAIALLAQEADKLTLRQ NLNIKSPCAVVILINTKGHH*LM NARLARYQSLLCEHPRITLGS QHLNPATFLPVSESPVKHNCVE VLDSVYSYVGPNRDHPNLISR LGAVTWMGSSFHQPLQSDTLK KTTSPGSSHTRKLTGPRTAEA
13934	44302	A	14016	1	675	MAPPLRLARLRPPGMLLRALL LLLLSPLPGLREGIGELITPIGT SLPDLDPARRRWEGGIGRVGSE VADLCPGKEGGKVPEAEKEGV WCFSELSFVKEPQDVTVTRKDP VVLDCQAHGEVPIKVTWLKNG AKMSENKRIEVLNGLYISEV EGRRGEQSDEGFYQCLAMNK\F *AILNQKAHLALSRIGST*RRRP DRP*EDEAFVMTTHCFQDLLTS
13935	44303	C	14017	18	329	
13936	44304	A	14018	391	895	WASSDTPTGFTQRWRPDWAGG GGGEERGDGTGVVWEGEKVY RFRRVTGGSSFPSPAVLVRAPN TGMPKLTYYQT*GPLGERGKEP VPPN\PTLPQTFGGLLNASVVRK TEIPSPSPPPVCYLASAERQ/PA GGSPQAKWRRRAASSPPPLPPVH LPPPPPPPPPPPPPP
13937	44305	B	14019	1	1110	

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13938	44306	A	14020	282	710	YPEPQGWWRVAHTVQYPIHIQPL KPGPRGR*SIMDIQVPPKEGGV LILKNSSRLLNSWTQGCLQISA FSPTSSTLPGTPWSNVGPYKIAP ITSFGE\PFIRVIWKQLPSWISIIQ V/SHKQ*QIHRSVDIGWSPGQEC GPKGCFV
13939	44307	A	14021	1	1416	MIILIDAEKAFDKIQQPFMLKTL SKLGTDTGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILP R DIDQW/NRTEPSEIMPHYNYLI FDKPEKNKQWGKDSL FHKWC WENWLAVCRKLKLD PFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHMKKCSSSLAIREMDIKTTMR YH LTPVRMAIHKSGNNRCWR GCGEIGTL
13940	44308	A	14022	1	3450	
13941	44309	B	14023	1	3171	

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13942	44310	A	14024	1	2433	MRTKTQHTRISGTHSKPVCRGK FIALNAHKRKQEKSKIDTLTSQ LKELEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKINESRSW FFERINKIDRPLARLIKKKREKN QTDTIKNCKGDITDPTIEIQT REYYKHL YANKLENLEEMDKF LNTYTL PRLNQEEVESLNRPTG AEIVAISSSLPTKESRTGWIHSRI LPEVQGGTEKEGILPNSFYEASII LIPKPRDATKKENFRPISLMNI DAKILNKILAKRIQQHIKKLIHH DQVGFI PGMQGWFNIRKSINVI QHINRTKDKNHMIISIDAEKAF DKIQQRFLKTLNKLIGDGYF KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCP LSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNTQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKDDTNKWKNI PCSWVG RINIVKMAILPKNWKKTTLKFI WNQKRAHITSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHTY NYLIFDKPEKNKQWGKDSL FN KWCWENWLAICRKLKLD PFLT PYTKINSKWIKDLNVRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATKAKIDKWDLIKLKSFC
13943	44311	A	14025	1	1023	MGAIDYDKPTANIILNGQKLEAF PLKTGIRQGCP LSL LFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDP IISAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEKEDTNKWKNI PCSWVG RINIVKMAILP/KAICRKLKLD PF LTPYTKINSRWIKDLNVRPKTIK TLEENLGNTIQDIGMDKDFTSK TPKAMATKAKIDKWDIK LKSF CTAKETTIRVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKS NNPIKKWAKDM/NRHFSKEDIY AAKRHM
13944	44312	B	14026	1	2206	
13945	44313	A	14027	1	1689	

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13946	44314	A	14028	1	2523	MKQFLLYLDESNALGKKFIIQDI DDTHVVFVIAELVNVLQERCHTR LGYTEFLVAWRVTFGLCVEAV TLHLKYQILIRGALLEMMSFSDA DILKQLPVTVPGLFPASLSPSSL LGNSPPSWLRHNSSESKVSAVSS PSATKTLSTGIGKLDPGHKEMA EESELLKNKMQAPPLSRCPEQ KCQHQLRLHHWKPSVRHQVKR RSPAVLRSAMPPADCPAVLEAT TATHPEKGTALSKHLPSSDSMS LKVDVEALENSPGATYIWKGG KVTRDSQPKEQGKGDLLKKKKK GKLPKNYDPKLTDPERWLPM QECIFYQGRKKGKKKDQMGK GTQGATAGASSEL DARKTVSSP PTSPRPGSAATLSASTSNIIPRH QRPAGAPATKKKQKQKKKKG GKGFPVLREITVVKVDTLVVFQ ILEERLSVFHIQYDTSYPFSTVDI EDHECAVWLLLRKSKSDDKTT RLEAVREMSETHHWHDAEKAF DKIQPFMLKTLNKFVGDGT LKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPSPLLFNTV LEVLAIRAEKEIKGIQLGKEE VKLSLFAGDIIVYIENSIVSAPKL LKLISNFSKVSEYKINVQKSQAF LYTNNRHTEQIMSKLPFTIATK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNEWKNIPCSWVG RINIMKMAILPKVIYRFNAISIKL
13947	44315	A	14029	1	2868	
13948	44316	A	14030	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKKRKQERSKIDTLT SQLKELEKQEQTSHKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
13949	44317	A	14031	2	3419	



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13950	44318	A	14032	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELEIETQKTIVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
13951	44319	A	14033	845	1616	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNIP PCSWIGRINIVKMAILPKVIYRF SAIPIKLPMFTFFTELEKKNWLA ICRKLKLDFFFIPYTKINSRWIKD LNVRPKTMKTLEESLGNTIQDI GIGKDFMTKTPKAMATKA/KKS FCTAKETTIRVNRQPTWEKIF AIYPSDKGLIS

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13952	44320	A	14034	707	2878	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIISIDAEK AFDKIQQPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPVSAQN LLKLIRNFSKVSQYKINVQES\Q AFLYTINRQTESQIMSALPLTIA SKRIKYLGIQLTRDVKDLFKEN YKP\LLKEIKEDTNK\WKNIPCS G\EGRINIVKMAILPKNWKKTTTF \RFIWNHKRACIAKTILSQNKKA GGITLPDFKLYYKATVTKTAW YWYQNIDIDQWNRTEPSKIIPRI YNNLIFDKPDKNKKWGKYSLF NKWCLENWLAICRKLKLDPFLL TSYTKINSRWIKDLNVRPKTIKT LEGNLGNTIQDIGMGKDFMSKT PKAMATKAKIDKWDLNNLKSF CTAKETTIRVNMQPTWEKIFA IYPSDKGLISRIYNELKQIYKKK TT\NPIKKWAKDMNRHFSKEDI YAAKHKMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKKSGNN RCWRGCGEIGTLLHCWLDCKL VQPLWKS\W*FLRNLELEIPFD PAIPLLGIYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTII DWIKKMWHIYTMEYYAAIKND EFVSFVGTWMKLEIIILSKLSQE
13953	44321	A	14035	869	3869	RHKKPFKKLTPNGAEIQTIREY YKHL\YANKLENLEEMDKFLNT YTLPRLNQEEVESLNRTITGSEI EARINSLPTKKSPGPDGFTAIFY QRYKEEMVPFLLKLFQSIEKEGI LPNSFYEASIIIPKGRDITKKE NFRPISLMNIDAKILNKILANQI QQHIKNLIHHDQVGFIPGMQG WFNICKSVNVIQHINRTKDKNH MIFSIDAEKAFDKFQQLFMLKT LNKLGIDGMYLKHIRAIYDKLT ANIILNGQ
13954	44322	A	14036	2	99	

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13955	44323	A	14037	1	914	TVTVIHTVARVGNLDIQIRKS ELFLSLVVCEAIKNEMNVMMLKS SPVDLVTATDQKVEKMLISSIK EKYPHSFIGEESVAAGEKSILT DNPTWIIDPIDGTTNFVHRFPFV AVSIGFAVNKKKKVDETYLGL VKETCFPLQIEFGVVYSCVEGK MYTARKGKGAFENGQKLQVS QQEDITKSLLVTELGSSRTPETV RMVLSNMEKLCIPVHGVRISVG TAAVNMCLVATG\GA\DAYYE MGIHCW\DVAGAGIIVTEAGGV LMDVTGGPFDLMSRRVIAANN RILAERIAKEIQVIPLQRDDED
13956	44324	B	14038	91	1959	
13957	44325	A	14039	28	152	LPSPSSKDTDS/AASCCAPRGRA KGSVSNRSLSFPPSSVPLP
13958	44326	A	14040	35	879	GSQCSSPPPASRCGSCSSAPSRH CPCRD FEP AVAGLARTPVLT TNPSPPARTGLNAPSMGTSLI/P ALCCFPLYQGSTELQCKAP**LP SPSSKDTDS/AASCCAPYFLVLL KVLSSVDNSSIWCSAGPPAQS/S SLYTIPMSSMSAKNCSVLRSGT WASFTCS*GSQRVSLGTPEALG TEDHTSRSLGHSVCHVDLSPA TASCSFQTASSEVSPPATASCSF QTASSEVSPPATASCSFQTASSE VSPAATASCSFTFSFFFVCAWLF GICPSCSAAVLST
13959	44327	A	14041	3	159	EHQCENPQ*NTGTPNPAAHQK AYPP*SSGLHPWDNQRQKPHD YLNRCRKGL
13960	44328	A	14042	54	245	GGGGGEAEDRLREPTEKALSS SL/RRAPDQC/RALIMQLFQAHC FFLST/QATAALQAHYAHIFPSK
13961	44329	A	14043	903	1205	WDVSQNNKSYL*QTHSQYHTE WAKTGSIPFENWHKTGMPSLT TPIQHSVGSSGQGNQTNREP NH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQ
13962	44330	B	14044	1	339	
13963	44331	B	14045	1	1547	

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13964	44332	A	14046	807	1440	NTGKPNPAAHRKAYPPRSSRLH P*DLQQTPTDLQLSDLTPGRKT NKQKGIASPSTKRTSTPKPHLQ ANAQRFCHHQACVTRVPKGST KHGKEQLVPATAKTCQIVKNIN AMKKLHQLTEIQITIREYHKHL YANKLKNLEEMDKFLDTYTLR RLKQEEVESLNRPMGSEIEAIIN SLPTKKSPGPDGFTAKFYERYK EELVSFLLKLFQSIEKEGILPNSF YEASILIPKGRDTTKKENFRPI SLKNIDAKILNKILANRIRQPIEK LIHHDQVGFIPEMKGWFKCKKS INVIHHINQTNCKNHMIISIDAE KAFDKTQQPFMLKTLNKLGTIR QKKEIKGIQLGKEEVKLSLFAD DMIVYLENSIVSAQNLLKLISNF SKVSRYKINLQKSQAFLYTNNR HMESQITSELPFTIDTKRIKYLGI QFTRDVKDLFKENYKLLLNEIK EDTNKWKNIPCSWIEESIS
13965	44333	A	14047	603	764	LPLFLIEYPLFLSLA*LPWPKLPT LC*IGVVREGIPVLCCFSKGMLP VFAHSV
13966	44334	A	14048	1566	1865	MQSIRKTIGIHAKYDKACRNGE DICLRETNSAADTQAKRV*SGP PANSNRPAAECPDC*KEN*QTE RTSTPKPHLYVTIHKDQRGQTLL TNNGTKLDRE
13967	44335	B	14049	1	1932	
13968	44336	A	14050	711	1575	TRKFRRNG*IP*HIHPKTKSGR SRI/FNRPI TGSEIEAIINSLPTKKS PGPDGFTAIFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFIQGMQGWFNIRKSI NVIQHVNRTRDCKNHMIISIDAE KAFDKIQPFMLKTLNKLIGIDG MYLKIIIRAMYDKPTANIILNGQ RLEAFPLKTGTRQGCPLSPLLFN IVLEVLARAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFKLISNFSKVSDTKSMYKN HKHSYTPITDKQRAKS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
13969	44337	A	14051	1	1579	MQGWFNVRKSLNIIHHINRND KNHIIISIDAEKAFDKIQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRQ GCPLLPLLFNIMLEVLARAIQE KEMKGIQLGKEEIKFSLFADDII VYLENPIFSAPNFLKLISNLSKFS GYKINVQKSQAFLYIINRQTESQ IMSELRFTIATKRIKYLGIHLTR DVKDLFNENYKPLLNEIKEDTN KWKNIPCSWTGSINIVKTAILPK VIYRFNAIPIKLQLTFFTELEKTA LKFMWIIQGYNSQNSMVLTLV IPRKMRSVELQQTSTDQLRD LTVRKKTNKRKATASTSQKGH LHQNPICRSPTSKTEVGFRRSV ITNFSELKEDVRTYHKEAKNLE NRLDEWLTRINSVEKTLNDLKE LKTMDLHDACFSNRRFDQ VEERVTVTEDQINEINDGNGT KLENTPDIIQENFPNLAISRPTF KFRKYREHYKDTPREEQPQDT* LSDSPRLK*RKKC*RQPERKVE LPTKGSPSD
13970	44338	A	14052	50	1105	TRKSRRNG*IPGHIYPPKTK\QE EGESLNRPTGSEIEAINNLPK KSPGPDGFTAKFYQSTNNKNH MIISIDAEKAFHKIQPFMLKTL NKLIGIDGTYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLPFNIVLEVLARAIQEKEIN CIQLHNEEVKLSPFADDMIAYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTINRQTESQI MSELPFTIATKRIKYLGIQLTRD VKYLFKENYKPLLNEIKEDTNK WKYIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTLSSQNWKKT TLKFIWNQKRARIAKSILSKKN KAGSIMLPDFKL
13971	44339	A	14053	1	764	MQGWFNVRKSLNIIHHINRND KNHIIISIDAEKAFDKIQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRQ GCPLLPLLFNIMLEVLARAIQE KEMKGIQLGKEEIKFSLFADDII VYLENPIFSAPNFLKLISNLSKFS GYKI*FPLFLIEYPSFLSLA*LPW PALPTLC

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13972	44340	A	14054	1	344	MGINQRRKAENSKNQSSASPTK DCSSSPAKEYSWTENDFEELTE VGFRQANAERFCHHQVCPKR APEESTKHGKKQ/RSISHCKNM PNCKDHRCYEETASTDSLAETQ QQKREF
13973	44341	A	14055	301	370	DDGVF*IDNHVICKQRQFDLFS
13974	44342	A	14056	1	1418	MVREGFPEEVTFELKNELEISK GQQMGKNIPDTGASSAKALGE RELGTLDKMKNSPSDGSKKDIR THRKEAKNLEKRLDEWLTRINS VEKTLNDLMQLKTMARELHDA CTSFNSQFDQVEERINKIDVRLA RLIKKKREKNQIDAINKNDKDIS TDPTEIQTIREYYKHL YANKL ENLEEMDKFLDTYTLPRLNQEE FESLNRPIIGSEIEAVNSLPTKK SPGPDGFTAIFYQRYKEELVPF LLKLFQSIEKEGILPNAFYEASH LIPKPGRDTTKENFRPVSLMNI DAKILNKILANRIQQHIKKFIHH DQVSFIPRMQGWFNICKSINIHH HINRTNDKNHMIISIDAEKAFDR IQQPFMLNTLNKLGIDGMYLKII RTIYDKPTANIILNGQKLEAFPL KTGTRQGCP/ATPVQHSVGS SDQGSQARERNKGYSIRK*GSQ IVSVCR*HDCIFRKPRLSPKSP
13975	44343	A	14057	1240	1596	CYSFLFVRCPSPDSQVPQLQVC/C EFAGGPLQTVFAWVSPAEEVVE MFLQG*RKPFYMSY/TSFEMAL MKVWTMVRTSASPVGDFVGR GWSPFPTSTVGALT VFGVSPGS CRSSPLPSERLWV
13976	44344	A	14058	507	971	PANQKKSRRRIHSQILPEAQR GAGTIPSETIPINGKRGNNPKLIL *SQHHPDTKAWQRHNRKREFY TDIPDDH*CKNPQ*NTGKPNPA AHQKAYPPRSSWLHLWDARLV QRTQISKRNSSYKQNRQKPHD YLSRCRKGLQQNSAALHAKNS
13977	44345	A	14059	561	758	
13978	44346	A	14060	2364	2663	DGQLTLVSILNHYSLAQSCEY* DGECFCLHCSASPFL*EGAQST ACTAPPECFASDLGAV*LPQHS WCSTLLLEGAPWPGTLGTAPQF QHRKLGTNLAG

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13979	44347	A	14061	1	64	MPIGKVGEYYIKGTLRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPFS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSAPKVR AEN AALPSRCPPGPLPVAQP/TGPAD GGSCEQCPSCGCGCCQLPPPLP WFPR*TPCDKRV
13980	44348	A	14062	1	774	MFVWSNVEGHSVAMFPWYSIP FLNPPCSHTRPSNLPVTQWPPT ENNLPWQLLLTSIHQAQFLSA LHKEQGSSEKDGSPNKWDK DHIRCPMS\AVMIFSKRHQAL/V RAHQGHPNQDNWTVSQMLSK WWYTLGPNERQKYHELAFQAT AALQAHYVHIFPSKGRWELLH GSQRLDWGRCQLKLLGQQGQ DVLHTNLGKEENSSCWGYKME CEEGFGPQGGDCGLGGVHAPL LSPEGLDSEQNTLIMGDIFHCA KKLP
13981	44349	B	14063	1	753	
13982	44350	A	14064	2	1457	YPRRRPSRAGVLAGPAVLGPP SSPGRPRRAAFFAEPFSARRS PRRAAVLAVPPSSPRRRPRRAA VLAAPRVLAAPPSSPRRRPR\PP PSSPRRRPRRAAAGSLPGAELP QSSRLAAHL\AAD*PDS*IAAGA VPRGWEGLTIMAEGKEEQVTF YVDGSRQRAYAEKPPVVKTIRS CTV/SGHSRHNSSSGM*/SSPNSP /IPFQFTFQIPSLQAALWLCL*V TWHFFVR*PVLSSRHCFSPGGLF SLSLQSAGCPAGSLQAEFVALP PGGQSRLHRTRAS*VPGAFQEK CPLERVWPFHPSKQHPRNGLAF PLP*APQRTQPAEDTLPRHPEM GLILSQGTAG/PGRECQATQLPA QSHAEVLHFGGAMSGQLSLV GPQDSKRTARLTDSQHLGSPT* QPPGLTEGTSLEQG**S*MGWM VGVIAGAPSGWSGSSGPSEGTP LFSSPA*LPWPELPTLC*IGVVR EGIPVLCQFSKGMLPVFAHSA
13983	44351	B	14065	72	1235	
13984	44352	B	14066	1	2715	

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13985	44353	A	14067	50	1304	TRKFRRNG*IP*HIHPPKTKSGR SRI\FNRPI TGSEIEAIINSLPTKKS PGPDGFTA E FYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFI PGMQGWFNIRKSI NVIQHVNRTRDKNHMIISIDAE KAFDKIQQPFMLKTLNKL GIDG MYLKHIRAMYDKPTANIILNGQ RLEAFPLKTGTRQGCPLSPLL FN IVLEVLARAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFKLISNFSKLSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ATKRVKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNI PCS WIGRINIVKMAILPKCKTVGLLS NISTHKS AVHALVEAGGIPSLIN LLVCDEPEVHSRCAVILYDIAQ CENKDVI AKY
13986	44354	A	14068	1	1155	MFVWRNVEGHSVA VFPWYSIP FLTPPCSHMRPSKLPVTQWPPT RENNLP SWQLLLMSVHQAQSL SALRKEQDSSSEKDGRSPNKW DKDHIWWPMS\AVIIFSKQHQA L/VRAHQGHPNQDNRTISQMLS EQWYTLGPNEMQKYDLAFQN VEARIRY/CHRPKRARFLSHAS PPWRQLPAAGAEASGAWNLP A GGG*HDYNRCSVPVFRTEVSTR PRPSEICGLTQE*TLLSAKSQVG NTFGFAGHTISDTTTPCGLCTSK AAIEVPEADTLPHICSWHKGEE CGLRGPEPSSPPRPSLAARVSA GRGALRRRRRPEVPP\SRAPRSA ATATPANEQRAVADV GQWAR ARGGRVRAAGRSGLLRVKMM KMKTVMIHFLMKDEYIFSS
13987	44355	A	14069	1331	1584	SLQRKAARFASSTVPRRPQGIL PIISFSNVPVGSRRLLKAPLVFIGP G*ITLNRIPYLP HSAARDPFTWN TFSFLLPCEEVPST
13988	44356	B	14070	1	1248	
13989	44357	B	14071	1	459	



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13990	44358	A	14072	1	2156	MGKKQSRKTGNSKNQASPPP KERSSSPAMEQSWMENDFDDL REEGFRQSNYSELKEEVRTHGK EVKNLEKKLDEWLTRITNAEKS LKDLMEKTTARELHDECTSLK RVSVTEDQMNMKREEKFREK RIKRNEQSLQEIWVYVVRPNLH LIGVPESDRENGTKLENTLQDII QENFPNLVRQANIQIEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTHKGKPIR LTADLLAETLQARREWGPFI LKEKNFQPRISYPAKLSFIDRST RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFSSAPHHTY SKIDHIVGSKALLSKCKRTEIT NCLSDHSAIKLELRIKKLTRNHS TTWKLNNLLNDYWVHNEMK AEIKMFFETNENKDKTYQNLW DTFKTVCRGKFIALNAHKRKQE RSKIDTLTSQKGLEKQEQT KASRRQEITKIRAELEIETQKT LQKINESRSWFFKINKIDRPLA RLIKNKREENQIDAIKNDKGDIT TDPTEIQTaiseYYKHLyANKL ENLEEMDKFLDTYTLPRLNQEE VESLNRPI TGSEIEAIINSLPTKK SPGPDGFM/RRILPEGQGGAGTI PSETVPINRKRGNPP*/PHFM/SA SIMLIPKPGRDTTKKENFRPISL MNIDAKI/RQ*NTGKPNPAAHQ KAYPP*SSGLHPWDARLVQLTQ

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13991	44359	A	14073	3	1794	AMLPMELGCGPLPEPLPVGCSR FSLFK*QTCISTVP/GYMVTAQS MSSTPPPPSPSTLPSSPSPPPPLPQ PLPPPPSPPTLSSLSSPSPRPPL VSPSTLPSPQPSSPQPLLPSSSP SLSPPPPPSPPLSPSPSAIPSLPPP SPQPLPPPPSSPPSLPSPLPPP PLSSSPSSPLSPSPPPSPPSLPPS PPPSPPPPPQPPSPSSPLSSPP LSSSQSLLPSSLPLSSPSPL LPLSLPLSIPP*LSSLPLPPSPS LPPSSFQST*TIGQCFSL/VMWH VAPCTYLALAGNTLMAWPLMS ASSKASGGVSMFVWRNVEPCS VAVFSWYSVPFLTTPCSRVRPS NLPVTQWPPTRAKNLPSRQLL TSVHQAQSLSALCKEQDSSSEK DGRSPNKWDKDIWWPMSGG HDLQQAAPGPGRAHQGHYPYQD NWTISQILSERWYTLGPNEQK YHDLAFQHMAGEDIASDEEHM VIHEEGVMVSLMTALAPLTL ISSSRIFGKVYGPPTSSSYTYS ASSSTLAPTSFLLGPGAFKAQES GEEAEDGLRELETEKALSSSL/R RALDQ/*LALIMQLFQAHCFFLS T
13992	44360	A	14074	1	2496	MLLSIDAEKAFDKIQQPFMLKT LNKLGHGVEQHHLHTTNDVDE EDLSDAASKGDDFALSEQSQD AHFLQPEAYGLGEGAETATGT AHQGNHVRVEECGRSLCGCVP LVLHPLPDPSLQPHEAQQPASH SVACNQKQPAKLPAVAHERP PGGTGSVDPRPPGATCPESPG PATPHTLGVVEPGKSSPPTMEE EPWAPQSPCWTAQSLSALRK EQDSSSEKDGRSPNKWDKDI WWPMS\ALMIFSKRHQAL/V
13993	44361	A	14075	4317	5099	KMFVFLCISAQLSLQCFRGSFHF IKIYDFSQFLFLLFELPYLLLLN HFKMLELVLQQGHPNQDNWT VSQMLSKWWYTLGPNERQKY HELAFQVKVAHCNKD*KKFSS EAKPTSQGLAG\GNKGSWEWS MSETGTATAPGVSELLSVAAQ TLQSSDTK\SSFCGAEWGHP*GI GCDDVIADDGFSTTDLDKFKE WVTDES GDNSGEEPEGNGKGF GKVFAPVIPSSFT/HCRPLLDPE/ PPGSPDPPAAFGKVYGPLSSSY

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13994	44362	A	14076	1	637	MSRVGSCRWVCGLADFKNGAT DLCDKSLHNRELSAERPLNEQI AEAEDKIKKTYPPENKPGQSN YSFVDNLNLLKAITEKEKIEKER QSIRSSPLDNKLN/EKDVDNFQ EFGKLIDGY\DSTKEWDVWHKF QDIPNVLVGTAFNVDDGNGGF VVHWLNNKEFHFTSSTEVMFH QLRKLSDKQVDHENDDADRED EEHSQEDRERGLHMKLDH
13995	44363	A	14077	448	464	KKRA*GSVSQRFAET*LAD*VI NTGSQEAKRREQR
13996	44364	A	14078	179	382	NTPNQRSVASNRFVKCTHQHS VKCTQSALCKMHQSAGFLKVD NHRED*KKGHSDRAKTEHGRG QIRE
13997	44365	A	14079	697	1654	PKPSVGRMGFLGTGTW\ILVLV LPIQAFKPG\GSQ\DKSLAH**ED LSAERPFEINRLLEAEGTRFK KTYPP\ENKPG\QSNYSFV\DNL NLL\RAITEKEKIEKERQSIRSSP LDNKLNVEDVDSTKNRKLIDD YDSTKSGLDHKFQENETADNSF SQEEPPVVAGEDLPPSPQESD VQPVPQEEVSARDLQRLDLQI KLSTQAAKKLKEESSSLERMRE ETSLSPTVPTKRWDTRILLIGAF YRVLIGAFYRVLMGAFYKPIAS YRALIGVFYRALMGAFYNPLV RQKSSPRPHSTQEVQLASPLTN TQITYYVIFTV
13998	44366	A	14080	72	1117	ILENHLSDRVAEGGPLQGLRLG VQGEAVPPGLVHQRGGLGPLD GELIGSVGQQVSDVEGAGSHR G*RHTGRTPAVSAGPAA*SATH TAPMWLAGWYEPAQPGPVLV SPPTPFGQTRQASWCSA*ARCA GSWWH*HQTPGA*RNAAPAP SWSRSCP*RPTRSPAAAPPAPSR PGRAVGLATGAGHPAQHGHGR AVPTGPRAAGAGSWSELCPSS CAGTSRGR*AGTRR*AAPAGSG RPGPGAWAGPRCSRSTYAAAA CGRGGA*AGADSGPRSGTHAG HCGARCSSTPLVPAAAGHLPP PGPGRTGDCPASSCPGPGLPHG CSLSGSWGEGWVSAARQAGLP WAVA
13999	44367	A	14081	2	269	
14000	44368	A	14082	1	591	
14001	44369	A	14083	2	477	

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14002	44370	B	14084	237	419	
14003	44371	A	14085	2	1220	LPPGFVMAAAAARWNHVWVG TETGILKGVNLQRKQAAANFTA GGQPRREEAVSALCWGTGGET QMLVGCADRTVKHFSTEDGIF QGSETLPG\GEGMFRGLAQTDG TLITCVDSGILRVWHDKDKDTS F*PTPGTESGPWGCVCAKTQA HPHVVCHRLGKRMLLKIWDLQ GS\GNLCFKAKNVRNDWDLR VPIWDQDIQFLPGSQKLVTCTG YHQVRVYDP\ASPQRRPVLETT YEEYPLTAMTLTPGGNSVIVGN THGQLAEIDLRQGRLLGCLKGL AGSVRGVAVHPSKPLT*PPVRL DRVLRHRIQNPRGLEHKVYLYK VSIE/RALLLSGRDNLGG*APEP SKTQTRCP*EDTEDR*TLGDPW RQLPSGKLFGVWSSPKELSKRD GERRSGLGPPAPDAPVPTL
14004	44372	B	14086	96	592	
14005	44373	A	14087	102	612	HCAGSPHSPRSLSGTPLPGLPL WRHLRSPSAHRCTVGAPFWAG QDRSQLP*LAGRCGGRGPSGNP GCA\PACGPAGVPGGRLGGPR TRSSQPALPAPGNEGLSTRASG CRGRTGSPSSASPPLGLSCLPAG QGWGP/GSPPCVSLPPTPWAPV RPEPPG*AAPPAPRRPVP
14006	44374	C	14088	1	636	
14007	44375	B	14089	31	612	
14008	44376	A	14090	234	504	SFYHLGAGE*PGKSRVPIPQFQS PWGPYCQGRARGGEVCHLQAV PPRGAGAARTLSGHPLGSPEQL PQGPAAELPGGVVPRSTPPCP
14009	44377	B	14091	1	924	
14010	44378	A	14092	11	354	RLSTSPDPSGAQLASPSGSHTRA AGGAACQSRAVRS/PFPSPWVV DGTGCGGAGGGARWGGSGCT GAHGVGGR\PGMAG\*GPEPCP EGRQLRPLAPVGCQ*REP\G*K NSMGETTT
14011	44379	A	14093	147	513	GSASGVVRLSRWARGLAGFRS EAADLRGECYSS*GSASGVVRL SRWARGLAGFRSEAADLRGEC YSS*KQRGPKELRSPAGFT*WIP /LPGLQVELPASAPCAPTPQPL SG*WD\GRRGAGGGARRGGSG RTGALGVG\GGSGMAGCRSRA LPPREGS

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14012	44380	A	14094	418	1026	WNP HQGCRWSCLPVPRHALAF LSPWVIDGTGRHGAGGGALWG GSGRTGAHGVGG\ S*GMAGCR SRALPHGKA AKAR*E IERSASG/ TG TAGGPSTPSAATGPGA KSLI ARGQQGWPAAPSAGPAKPTPT GNSSWPASAAGSSGSCSRLS/SP HLPAS*G SGLQPWPAQKGAPTV QQQAEGLPIRLPEEWISLPFLG HQGEHSGMA
14013	44381	A	14095	897	2111	PPLLQSSPNFFLICYPWHNSHE NTHRTGRRGAGGGARRGGSGR TGAHGVGGRLRHGGLQVPSPA PWE GS*GPARNRAQRRYHCSCP GLQSGLPHYSGYHT*PDEKEKN GREGQKLER
14014	44382	A	14096	1304	1922	KL NIGVIYSSEIPDSGAQLASPS GSGTRAAGGAVCQSCALRSHSS ALGWSMG/PGRRGAGGGARW GGLGRTGAHGVGGRLRHGGLQ VPSPAPREGS*GSVRNPAQRRW AGTAGGPSTPSAATGPGA KSLI TRGQQGWPAAPSEGP AKPTPTR NSSWPASAARSPGSRSR/RLPPH LPAS*G SGLQPWPAHYFEFFLPI GQNAQTEVSY
14015	44383	A	14097	318	533	MVCFDGADCPWVVDGTGRRG AGGGAHRRGSGRTGAREAGGR LRHGGLQVPSPARREGS*GPAS PAGCLAHL
14016	44384	A	14098	346	957	ARYTLHIPTRLGSPAGFTQWIPH RGCRWSCLPVPRRALAFLSPW VVCSFPVDGTGRRGAGGGARR GGSGRTGAHGVGGR/PGMAGC RSRALPRGKA AKARREIERSAG G/TGTAAGPSTPSAAAGPGA KS PFARG/LAGPAAPSARPAKPTST RNSSWPASAARSPGSRSWKMS LYMKKSASGQSQAQWIAKMW KSPRFKPLWLTS
14017	44385	A	14099	124	663	SCLPVLRRALTFLSPWVVNGTG RRGVGGGARRGGSGRTGAHGV GGR/PGMAGCRSRALPRGKAA KARREIHSAGG/TGTAGGPGT PSAATGPGA KSPIAPGQQGWLA ALGINGAGERLFMKVAFSLKTC SLSCSYLRLTLRGGSVHVLRG NLTVCKPQPALLRVVFHHQRQ ADCGALPVP
14018	44386	C	14100	1	672	

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14019	44387	A	14101	3	1759	RPLRGWRRTRDARAPRRRCRCG SHGARRCLRKTAATSRCGGAP GP\RSRPPSTGQAAEAGDW/PAG CNP*GGLRAADGPGSRPPRGS GLLCGQGGQGGSSPWVVHGTG RCGAGGGAPWGSGRTGAHG VGGRLRHGGLQVPSAPQEGS* GSARNRAQPRWAGTAGGPSTP SAATGPGRDGEGG\ETGAHVSA LKGTPGTEWPAHGLVPYSIGDQ TCLIFKVTFAVVLKCGPQTTS STSISCPGSAN/SPPSPAG*/GSSG CGSSSLCSAHSVQEDSQPQ*KR TGLQS\TYGRSGSSSNEPRYHSD LPTSRSKLRNEDTFFGRRKKLS EVQRTGQDPA*SHHTSSYTLPG L*TAEGKDRVENAA*KGSPNFQ RSGTFNPKGGARKTRQAWHPR APNCQAGTPPREGSSGPRTSLS AAFRIPQEVVNFLISGPITRAQR HGEPESPRGQTGSPPLGKTGSE GTDRKSTGADKKSTGDRQEV EPTESPQGLDRKPTGMDRRSTG NRQKVRQIGSPLGLNRKPNGT DKKSTRNRQEVRRRQSAGARQ ERAGSSTFLRLSALCGLLDVN REQVAKQKWLDLYSSRFTSGNR
14020	44388	A	14102	1879	2607	GKPSLSLHPGHKCGISRCNGNV SSRLRSPAGFTQWIPHRGCRWS CLPAPRCALALLSPWVVDGTG RHGAGGGARRGGSGRTGAHG VGGRLRHGGLQVPSAPREGS* GPARNRAQRRWAGTAGGLSTP SAATGPGAKSPIARGQQGWPA APSGGPPSPSPPGTPAGPQAPH AAPVPA\PLPPLPAS*GSGLQ PWPAQKGAPTQGGG*RAPQM PPKWEPRQRRIVAFTIEVGVL
14021	44389	A	14103	2	272	GHWGMVNSPCRASATVSRGSP LPGVLPTSPPSATSTCRMCHPR RCPLPFRRLSPPSLTPP/PGKPPL LPRPHSMPGLGLPLGGLPVFHP

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14022	44390	A	14104	101	1815	QSARQLRPCPGAPSLAGVENRR KKTNTLSLAAPDTQSTCGQSC GCLHSMGSSCMQHSYYTGFLR SLWPCRCHRSASFSGQRRSEED SKSVRERSGRSQNVPARPALTS PLTQSPGPLAPGAGSWRSQLG TGTGVLWWQRESATGDFRTES ARSSDPSRRDWPAGAKRKEEG AATVLWACATASTAIICQDNAI SPLKSGNSPSNHLWRPQGQLPP VLGLAQPKRWRPNRLTTSPSPS RMMARPVDPQRSPDPTFRSSTR HSGKLEPMEATAHLLRKQCPSR LNSPAWEASGLHWSSLDSPVG\ PCRP*GLRPSTHGARTFSGARP GLGGYSPPPEEAMPFEFDQPAQ RGCSQLLLQVPDLAPGGPGAA GVPGAPPEEPQALRPAKAGSRG GYSPPPEETMPFELDGEFGDD SPPPGLSRVIAQVDGSSQFAAV AASSHQCLSHHIPMSPSVGRNG LLTKPPSTSRRGKLTKRDDMY FVPFRSLNDMMHMLPFIEDSR WTHNLDINREQKTNPLAGPKG RPISRTQAAASTSNSKTESQIQE KTEEAPFSLRYININNRSM DPLN
14023	44391	A	14105	39	877	AGPGPPRPLPPRSSEGGPGASISL CSEVPGPSCQGRFRGGRDAMS MPWREERSSLLAGE*PS*GG*S GRGVSRKCS*PGPRGVPRPRPL RSRPRAASSE\DN SPLDQSLHR TRKTIPSSGGSTAIMPRGSSSE TFFSAPSKTWVLGIPGETFISGP AAFPVAPGGPRAAPRPSPLNSL *SGGNGGPGPPRLHFSSCGKGP PRPSNSRN\GGQSACQGGSHLV C*SHRGS LGEGHAYQGDPCSPG HPAKAPSRHAQARRSAHAAS LTSGPCDASCQAW
14024	44392	A	14106	358	546	CFPSRIRLALSRAKWP AKRSPS EPMS/PPVWSPHPDPNNTAPPK EQPPSSPGRVGRHGNWSV
14025	44393	A	14107	22	549	DHCLCSVVRNKRDSVYPLPIPP CCKTSTISPP/LVDAVRP*DISVS KRVTS CAPLEPQHPCLPTINAG R/TLARPQGAPTPNKEEGQAPG RATASGQAAPATTVLGD TTK/G PQGRHRGTSASAAGPAPFAVA DQLPPEDRAASA EGRK*AAAFP FCHRLVQDGGPPPPAAGVPGA GES

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14026	44394	A	14108	146	2616	LAAVGMASHCFRQRRQSQSPA\GLRGAGSAYSPA\EGARSSHGQ/PPWRGRRRGPGDPVRGAARCRPRAAAQPARPAARPPARPRPA P*AACCE/VPSAANSVAPSAAM *SSAGRDGASSQSRPPHAAPP RSSALPANGK/PPSPVTRAARTC GARSSNTGA*SAARPKHSAASS RHPPPA/MPLPARHA/PGGTSG RPLPTPQGSAPTSSASPRGPATP PPAGPRAPPPSPRRAAPRPPGR QLSPAPGTPAAGGGGPPFPALR *SGSVFGRQLVGDGERGRACG ARGSAAVPALRTFVVPSTVVA GAACPLAVALPAPDPLPCSE*A PLRSG*VPQPASLFCQFRPQA WQHP*LLRAPCPRLGAAVPCV WCHSRALDSATPRWM*G*RLP AVWL\PAFPSPPFNQAFVPPCQQ NCSLQNRQTLASAKIGTEEWD IAIKIPENVEVTLELGNEQRLEE FGGLRRRQEDEGKFGTPTDWL NGCDQNADSNMDEGQGEDG GCSFGGAGLRGSGWGDQTRET FLALKANLRWPFSSAQSQTSQ EGAAGARSLKGGKKNPLKLP KKQAKKMNAFKQKQEKERK KHKELKAKASWKGLRPQVEFK NLAERRGEAAVPGCPVVAGHS WRLLSLARGCAKRARQLLPSE KLLAALREGSTRGGGAASQPQ RKLRVCMRVLDSSEDFHMDG
14027	44395	A	14109	1	885	MIISIDTEKALDKILHPFILKTLN KLGIDGTYLKIIRALYDKPTANI IMNEQKLEAFPLKSNTKQGCPF LPLLFNIVLEVLAIRAIKQEKEIK SIQIGREEVKLSLFADDMIVYLE NPIISAPNLLKLISNFSKVSQYKI NVQKSQAFLYTSNRQTEIQMM SELPFTIATKGIKYLGNHPLTRD VKDLFKENSKPLL/KELEKTTLN FIWNQKRAHIAKTMLSKNKA GGVMLPDFKLYYKAAVTKTA WLGDQVFLIPRGHISDYHMG KNLGQYPAFQDRGPCGFPQCIV PLVYRD



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14028	44396	A	14110	453	891	LIHLSTDALRVSGWGTVRSFSS HEAIFQTIAWGETLDNTLLSRA EVPAAFHGALCPWFJETREWQ* LLQSILLVNIWLTRHVLHSPRSL KP*FYTT*VFVCSKLGQSGWGK VAGAKLQMNNISAKQLFKVQV LFKIESLMSSSLT
14029	44397	A	14111	452	2922	KMGLAREWILRFLVLILQEIRS MRQKENKDIQDLNSALHQADL IDIYRTLHPKSTEYTFFSAPHCI/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQ/NRS ATWKLNS/YLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKRKQ ERSKIDTLMSQLKELEKQEQT SKVSRRPITGSEIEAIINSFTNPK RVPGPDPGFDEPNFYQRYKQEL VPFLLKLFQSIEKDGI LPN*FYE ASIIIPKPGRGTTKK/EENFRPIS LMNIDAKILNKILANRIQQHIKK LLHHDQVGFIPGMQGWFNICKS INVIQHINRTSDKNHTIISDAEK AFNKIQQLFMLKTLNKLGTNG MYLKIVRAIYDKPTANIILNGQ KLEAFPLKTGTROGCPLSPLLF NIVLEVLARAIQEKEIQGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINLQ KSQAFLYTNNRQTESQIMSELP FTTASKRIKYLGIQLTRDVKDLF KENYKPLLNEIKEDTNKWRNIP CSWVGRINIVKMAILPKVTYRF NAIPIKLPMFTFFTELEKTILKFR WNQKRAHIAKTILSQKNKAGGI RLPDFKLFYKATVTKTARYWY ENRDIDQWNRTEPLEIMPHIYN HLIFDKPDKNKQWGKDSL FNK WCWENWLAICRKLKLDPFLTS
14030	44398	A	14112	3	3349	

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14031	44399	A	14113	294	1107	RRHRLNYIPRTAQSPHPRKAL ARSESKRDGGFKNNWSFDHEE ESEGDTDKKEGPLDAPPRP/ESG PRAPGKGL*RRSRSPGSPERGSA ARLTAEPEARNPAASTLLRRGP SSRRARRRRCGPWIKKEAAWEE EDGGRQERRLGQDLRTRTLNK SKGGIDSRISLGQHSHPHAKL WLDQSLREMEVLKIIGALIMKK KVKEIQIKSRARSTPLHDQIGTT SPRERTIASKRHPYYITPKGIRY EQDTLSRTPITTIRSRQRPLGLT ASPPPSFPTLAPPTQAIKPSLHLR EGKPTPTPGERSTRPHHPEPPRK EYALSSLYPPTYLLAPTSTDLG NAHPTQEPQFNVDATHPRQNR FIPVAGNSPKRSSQFPIVFAPKK NTTPPYLDFAAILGLHRRPPRSR FRTSYPPKEFRSSPPERTAPRN
14032	44400	A	14114	2	297	VQKSVLCSFQAGTMEGVEEKK VPAVPETLKKKRRNFADAIQFL QTVFLAF*YTLLKGRQVYWL V EE*HQFYKISYRKKMVQRIRQH PQSCTVQKSWWP
14033	44401	A	14115	3	754	GTMEGVEEKKKEVPAVPETLK KKRRNFaelKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTEIRMARMARKAGNF YVPAEPKLAFVIRIRGINGVSPK VRKVLQLLRLRQIFN\GTFVVKL NKASINMLRIVEPYIA*EYPNLK SVNELIYKHGYGKINKK*VALT DNTLIARPLGKYGITCMEDL/IH EIYTVGKCFKEANNFLWPFKLS SALSGMK/KKTTHFVEGGDGG NRVDQINTLNRRMN
14034	44402	A	14116	1	388	

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14035	44403	A	14117	1	1145	MTRNYEWLLEAESSQPIAFQK MEPQPYNSKELNSANNQCLLE KPKLRQRLKDKEYDQGHTAVQ CQSWVYVLTTPDSFCQQLILLPS TENFHECSRSDTAGHLRTGHVA SNWLSEHSPQTMPAAMQWDK KMQNTSSWFPQKAPEKVKPMS KLWQTPSQNDTLYKAVKALT SSPERNSINTNKKDVHTETSSK GHQHQRPKVDKSMKMRKNQH KKAENSONQNASSPPRNHNSSP ARERNWSENEFDELTEVVFRR WVITNSELKEHVLTCQKEAKN LEKRLEELLTRITGLEINQAEERI SETEDQLNEIKHEDKIREKRMK RNEQILQEIWAYYVK\RPKLRLIG VPENDRENGNKLENTLQDTIQE NFPELAR*ANIQIQ
14036	44404	C	14118	291	551	
14037	44405	B	14119	1	1308	
14038	44406	A	14120	82	367	ITLSSPPHSFIGHKTPASGPPQKI PPQPSQ/CKQWGDPTPVEAC/CV SCPTQGFISPTRGGPPCKHESLV VPLVGTTPRRNQPGGHIQHSQR WAPVLT
14039	44407	A	14121	999	2661	VHLTGCGGPGQPVPPEPAPPRGL RSMRC/GP*GFSPGAEA*TEP/C HYGGRGFPCGPFSLGCLAT\NSP WLPGRPPCSPWAG\CGLCPLP AAAAERQPALSVPGASPCRL PLVVLCHGSHLNGGRVLLRPG GSPCGHCHNCAGARRGLGHVL QGGAQARQREQLQR
14040	44408	B	14122	164	1042	
14041	44409	B	14123	320	566	
14042	44410	B	14124	1539	1674	
14043	44411	A	14125	185	780	QKAKKGKLRKSKQNSFPGLKK TVPSQLVQYCPSF*ISWKPMVY QKVPA*PRPPRTPDHHPDGP PHPRQHHPSPDAEP/SPTTPT RRRPPTQPPDHPKRPSPHSPH PPQQPPTPTATPTEQQRHTAPP TPRPPTTHPPSTPKHPA\PH TAPP PTKNTKPPTPQRTTQDKGRQKK PRRQPHHSEPNKKSPKAHI
14044	44412	C	14126	1	1128	
14045	44413	A	14127	319	536	
14046	44414	C	14128	231	425	
14047	44415	B	14129	1	1431	
14048	44416	A	14130	75	393	
14049	44417	C	14131	174	371	

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14050	44418	A	14132	79	164	
14051	44419	A	14133	343	775	
14052	44420	A	14134	554	724	SEGPSKEPTHRRMKFSHHDDLIFLDLSN*QPPNSPEPHPPQSP*KPWPQNPSRQM
14053	44421	A	14135	20	242	VSFLSMGSGHCIRSTRGSKMVSWSVIAKIQEI*CEEDERKMARESLAESMSTYVMMNHTYDS*GKTHILIMKK
14054	44422	A	14136	229	366	
14055	44423	A	14137	131	505	
14056	44424	A	14138	1	1317	AGCSCGSRAMAEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAALALQARGCSVKIWTAHYDPGHCFAESRELPVRCAGDWLPRGLGWGGRGAAVCAYVRMVFLALYVLFLADEEFDVVVCDQVSACIPVFRLARRRKILFYCHFADLLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFTA AVFKETFKSLSH\KDPDVLYP\SLNVTSFDFSCS*KAGMT*SPRGKNSWLLSINRY\EREGKIWTLTGTGKALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTF\LRFSFSDKQKISLL/RQLARVCFYTPRQ*GTLGIVPLGRPCYMAVPQFICCLIRVGPF\GSSI*PQCSQGFCVEPDVHFSEAIEKFIREPSLKATMGLGWEPE*REKFSPGSILQEQLYRYVY
14057	44425	A	14139	1	648	MESKEEQGGVADHQKATRGIPTPQPREVVSERATQRGNRAFSTKLCNPKTNRKQQQQYQQQKGRKTLPKGQHPQRSKLDKLTEMRKHQQKNTKNPKGQSPCSPPNDCNVSPARVHNWTGDEMEELTEVGFKKWVRKNCAELKEHVL TQCKEAKNLDRLEELLTRKTS LERNINDLMELKT/RA*ELCKA YTSINS*IDQAEERJSEFEDHLAE

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14058	44426	A	14140	1	1365	MPVKGGTKCIKYLLFGFNFIW VSEDCRALLSGPTCSRAPDTG RGRECRQLALPAPGRHRAGRES ALRLPAGSKAGSRAGRDGRDG RIRVGVSGLTFLGSTTGLFNQSL AETGFTPYTQKSNDFLVKS LKI WHTYFKNFHQEARLYIRTSPGS NWNWFCTLGIESPEQPGVYEG QRPRVVTKSFA SLTLKRVGTVL LLAARINADVLYVLQLAGIAVL AIGLWLRFDSQTKSIFEQETNN NNSSFYTGVIILIGAGALMMLV GFLGCCGAVQESQCMLGLFFG FLLVIFAIEIAAAIWGYSHKDEV IKEVQEFYKDTYNKLKTKDEPQ RETLKAIHYAVCRLGKDTLLRF LRIVSAHRLNCCGLAGGVEQFI SDICPKKDVLETFTVKSCPDAIK EVFDNKFHII GAVGIGIAVVMPS FRSNHPDPHVSSYLLIFGMIFS MILCCAIRRNRE MV
14059	44427	B	14141	98	1064	
14060	44428	A	14142	560	964	KRLPRILGIRGKPCCPDTSRAGR RVRGRAAAPCREAARGRGQRR FLPPTWRCETGAATMFPSPALT PTPFSVKDILNITVRPRS/LGQAA LTKRLSASLSPQSCARCRRRWS CVILSAVRGN*YAGSRAHRDCT Q
14061	44429	C	14143	189	452	
14062	44430	A	14144	1	647	

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14063	44431	A	14145	890	2905	LRLSLKFPMSQWTPEYNELYTL KVDMSKSEIPSDAPKTQESLKGI LLHPEPIGAAKSFPAGVEMINSK VGNEFSHLCDDSQKQEKEMNG NQEQEKSLLVVRKKRKSQQAG PSYVQNCVKENQGILGLRQHL GTPSDEDNDSSFSDDLSSPSSSL HFGDSDTVTSDDEKESVSRHSQ TILNAKSRSHSARSHKWPRTE ESVSGLLMKRPCLHGSSLRRLP CRKRFVKNNSSQRTQKQKERIL MQRKKREVLARRKYALLPSSSS SSENDLSSESSSSSSTEGEEDLF VSASENHQNNPAVPSVTYGP WSKNIKEKTLEINSSQALTAYE CLHSAHVINLISPFYHHFPSSQE RSYLSTLSTLSNKKTGSVWFTR SPKVTQFFPGGAITGTLQRPER EILRPLALPGKGNTPPYFCSPSM GTHCPTSPNEMNQISEDAA APVRDIYIKPPSPWDRAPGGRG GCGHSFSRLKSPYLRALKSAAD FPAQHSSSDKGQAASSGSLTP VYPVWVTPPSRGRQTPHRGEL WLASDGCPSGRKLPEEGTGSNL CCSAASAGDTQANRDHNSSPA REQWTENKFDKLTEAGLRRW VINSSELKEPVLQCKEAKNLE KRLDESPTRITSSEKNINDLMEL KNTAQELHEEHTSINSQ/DQAE*
14064	44432	A	14146	1	737	LNRGEQRAVRYYYSHMKLNMA EEEDYMSGFLH*CPRRYQTRIA NAKANPRSPSKR\EKQQEANKL NRQKSLKEEQERRDIGLKNAL GCENKGFALLQKMGYKSGQAL GKSGKSGIGHEASLKRKAEEKL ESYRKKIHMKNQAEEKAAEQF RMRLKNKQDEMKGDLRRSQ RACQQLDVQKNIQVPREAWY WLRLEEEETEDEEEKEQDEDEY KSEDLSIKKTYLQIVQDQLLQI MTKIIPNKVET
14065	44433	A	14147	1	1860	
14066	44434	A	14148	1	1203	
14067	44435	B	14149	1	1119	
14068	44436	A	14150	1	1407	

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14069	44437	A	14151	1	1731	ERSSSPATEQSWMENDFDELRE EGFRRSNFSELKEKVRTHHKQD KNLEKRSWFEKINKIDRPLAR LIKKKREKSQINAIKNDKGDITA DPTEIQTITTEYYKHLANKLE NLEAMDKFLDTYTLPRINQEEV ESLNR/LNNRL*N*GNN**LTNQ K/NVQDQMD*QLNSTRGTRRS WY/RFLCLKFQSIEKERILPNSFY EGILLIPKGRDNTKKDNFKPIS LMNMDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISTDA GKAFDKIQQPFMLKTLNKLID GMNLKIIRAIYDKPTANIILNRQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLARAIQEKEIKGIQLG KEEVKLSLFADDMIVYLENPV SAQNLLKLISNFSKVSQYKISVQ KSQAFLYTNNRQTESQIMSEIPF PIASKRIKYLGIQLTRDVKDLFK ENCKPLLKEIKENTNKWKNIPC SWIERINIVKMAILPKVIYSFNAI PIKHPMTFFTELEKTTLKFIWNQ KRARITKSILRQKNKAGGITLPE FKLYYKTTVTKIAWYG
14070	44438	B	14152	1	906	
14071	44439	A	14153	3	553	EHSSSPATEQSWMENDFDELRE EGFRRSNYSELKEEVRTGKEV KNLEKKLDEWLTRITNAEKSLK DLMELKTTAREICDECTSLSSR CDQLPRPDGFTAIFYERYKEEM VPFLLKLFQSIEKE/VNPP*LT* GQHHPDTKAWQRHNKKREF*T NIPDEH*CKNPQ*NTGKPNPAA HQAAYPP
14072	44440	A	14154	1	909	MKAEIKMFFETNENKDTTYQN LWDTFKAVCRGKFIAVNVHKK KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEIET QNTLQKINASRSWFFERTNKID RPLARLIKKKREKNQIDAIAKND KGDITDPTEIQTITREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGAIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LECSSSPAMEQSWTENDFDDL EEGFRRSNFSELKEEVQTHRKE AKNLEKRLEKWLTRITNVEKS LNYLRELKTMARELC
14073	44441	A	14155	1	969	

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14074	44442	A	14156	377	687	LLEGKLTNRKDIHTKTPSV/SPP SSKTKEHSSSPAMEQSWMEND FHELREEGFRRSNFSLKKEEVR THRKEVENLEKRLDEWLTRITK VEKALNDLMELKTMARE
14075	44443	A	14157	1	711	
14076	44444	A	14158	1	831	
14077	44445	A	14159	1	744	
14078	44446	B	14160	1	1479	
14079	44447	A	14161	1	810	
14080	44448	A	14162	3	651	
14081	44449	A	14163	2	1067	
14082	44450	A	14164	2	2063	
14083	44451	A	14165	1328	1639	PTNAHETSGRYIAGSSEKRTSA RTCGGTSAARPAQTSMQTRC RQPPSS*HAVPRVAQSSDGL KATHPQAYQPCGHTPTRLPQES NCIEHERGLGKKKKKKK
14084	44452	A	14166	1	620	MTLGYGQRGANKDLRTGFDPD LCTMDNFAEGDFTVADYALLE DCPHVDDCVFAAEFMSNDYVR VTQLYCDGVNDSFLIGGLLRIG CKIENERSSSPAMEQSWTENDF DELREEGFRRSNYSELKEEVR/T NGKEVRNFEKKLDEWITRITNA EKSLKDLMEKTTARELCDKC TNLSNRCDQLEERVSAMEDEM NEMKHEDKFREKE
14085	44453	A	14167	1	514	MGKKQNRKTENSKNQRTSSSP KERSSSPAAEQSWMENDFDEL REEGFRRSNFSELKEEVRTHGK EVKNLEKRLDKWLTRITNTQKS LKDLMEKTTARELHDECTSLT NQFDQLEERINNIEDH*QD**R RKERRIK*MQ*KMIKGISPLIPQ KYKLPSSENTINTSMQIN
14086	44454	A	14168	1	366	MDTFLQAERKDYMEAYELIEQ EEQGEREPVAVNNILSTEALMA NAKSTLMFYAVGFLWQPGGGR GHKAASNPGVTRDVVGLSSLT FLRGERSSSPAMEQSWTDNDFD ELAREEGFR*SNFS
14087	44455	A	14169	1	1026	
14088	44456	A	14170	1	3906	



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14089	44457	A	14171	1643	2721	IKPTKMGKKQSRKTGNSEKQST SPPPKERSSSPAMEQSWMENDF DELTGAGFRRLVITDFSELKED VQTHHKEAKNLEKRLDKCRTN G*LEWMNG/ITRITNAEKS LKDL MELKTKARELHDECTSLRSRFD QLEERVSVMEDQKK\MNEMKR EGKFREKRVKRNEQSLQEIWD YVKRPNLRLIGVPESDGENGTK LENTLQDIIQENFPNLARQANV QIQEIQRTPQRYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGQ VTLKGKHIRLTVDLSAETLQAR REWGPIFNILKEKNFQPRISYPG KLSFISEGEIKYFTDKQMLRDFV TTRPALKELLKEVLNMERNNR YQPLQNHAKM
14090	44458	A	14172	351	898	SGVTAPWRPNGTLLITAATASH PVLAI PAHLCSPRCPSFLT TVTC SGPQHHAARGRVPFHC/SECGK SFRYRSDLRRHF/ARHTALKPH ACPRCG/KGFKHSFNLANHLRS HTG/ERP YRCSACPKGFRDST/G LLHHQVK TITT*PD/CGGCLVSN IVGSYSRPPWPCTRGPRRPLGSP SPAPGSVCLC
14091	44459	A	14173	1	551	
14092	44460	A	14174	3031	3207	TIHGCWWDPLSSIF*PFWGRGFI SHKICQAQISFRVISGTVLSLDK LLIMFHKAIFASP
14093	44461	A	14175	3555	3957	ENGQKTWTGTSSQRRYTGDRM AQIQNPDTKCW*ECKATGTRIH CWWECKMVQPLWKS\WQFLT KLSILLPYNLA ILLGNYPNALK MYAHTKGFTCMFIAASFIIAKT WKQPRRPSVGEW/INN L*LVQT MEYYSAL
14094	44462	A	14176	3	883	CQPYPRPRPRTGTHGSCQPPSQ GSAEP*G*CLPTLLRMALKAQP TKVNPRTL DSDPDVC/S*AAHS RVLITSPSRAPWRLPSP*RRCPA GTCMPSTAT SAR*CSQRP GSSW *T*TGSSLGSQACGPSSSTAPPSS SWSACTCGCAAAARCSCAASS TRSGPTCGSSPPASSCASSTPAP GTTPSSTLT SWASSPWSTPCPGS AGPSSWSSSSSATPSASASTRTL SPGSPAAP*PWPTALSRLTEQEA VWGAWGISHGNSWDKETKLV RLPHPCSKSPCFRPSLQPYRAHR AP

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14095	44463	A	14177	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL\GILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14096	44464	A	14178	2	1044	AKTSSQMPSQPQEGMCGKACTP ALSQADSLCPLLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALSSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNG\GGLA GMGGIQNEKETMQSLRDRLAS YLDVRGLETENWKLESKIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAEMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV

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14097	44465	A	14179	1	2040	MPVPQLPPPVSRLAATAAASVT EPGPNPEAVRSASAEPEVKEGF PSQNHSVGHSLIPSGGSAVPS GRSHYGYASEDGTCSKLRVRPR LAAAPAAPFAFVADLASCCQG LSFFEGILLVRGPYRRLRATVV RDLVAVRMAEEQEFTQLCKLP AQSPHPCVNNNTYRSAQHSQA LLRGLLALRDSGILFDVVLVVE GRHIEAHRILLAASCDYFMSFT TRSTFSTNYWSLGSVLATTYGA RLVSSTARVYAGAGGSGSRISV SRSTSFOGGLESGLAAGMAG GLAGMGGIQNEKETMQSLNDR LASYLDRVRSLETENRRLESKIR EHLEKKGPQVRDWSHYFKIIE LRAQIFANTVDNARIVLQIDNA RLAADDPRVKYETELAMRQSV ENDIHGLRKVIDDTNITRLQLET EIEALK*ELLFMKKTPEEEVKG LQAQIASSG\LTVEV\DAKPSQD LAKIMADIR\AQYDELARK\NRE ELDKYWSQQIEESTTVVTTQSA EVGAAET\TLTELRRTVQVFGD STWTSMRNLK\NLENSL\GEV EARYAL\QMEQL\NGILLHLESQ LGQTPRTEAQRQAQEYEAALL\N IKVKL\EAIEICHLTRPPSWKIGE DFNL\GDS\LDERNMQTIQKTT TRRISWIGQSGVLRPIDTKVLEA LSQQEASGTLLGKQEANKKFQS
14098	44466	A	14180	275	550	
14099	44467	B	14181	729	909	

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14100	44468	A	14182	1	1415	MGTQCDLLAKSLEDPCVDEVE DAFQGLGKEDEEIEQFSDKTFG SGAIDDDWREAHECLAEEVK QPVAVIEQTGNGERDEMDLLD DHEENLAERLSKMVIENELEDP AIMRAVQTRPVLQPQGSLSNSSI WDGS/VSSEANPRTTACSGNAY SVCIRICFASEA/SPRVQKMIGTF LNEHYQGGQLHLSLAVLLELS P*APHLNRWLYPASPNRFCVRS LSMFGP/QMPPRYPAPYGERMS PNQLCSVPNSSLLGHPFPSVPP VLSPLQRAQLLGGALQPGRM SPSQFARVPGFVGSPLAAMNPK SQAPMFRPDTTHLHPQHRRLLH QRQQQNRSQHRNLNGAGDRGS HRSSHQDHLRKDPYANLMLQ REKDWVSKIQMMQLQSTDPLYL DDFYQNYFEKLEKLSAAEEIQ GDGPKKERTKLITPQVAKLEHA YKPETIICQALCRALHINYLTKA FQQAFEVSASIITIYR
14101	44469	A	14183	204	560	QGYWRGCTSSGGDGGCRGCW SPGKRR*GLSRTASGPPAAVAS PGRPRSPPSARTG*S*PGA*ARP CSRTW/PPRCPLRPSSAARASA SRV/APL/GEPAPANTNIYCAAL THRATKSSTREF

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14102	44470	A	14184	59	1695	DMPWWPVLPWIKDSSPSSLEM NPDNTSGLRQKSVEAEPCLW MVHRYTPQSTGEACTMAKAA GPSSP\GSCPPRPLGADPWPMR LSH*EC*KTGTTASGYRRHQET APPESSGSPVGLSAGLWLSWA WPVSPACLHPGPPLCP/GPPALG LGPRSPAAS/C/PPLPEAPPACSP FCP*GEISSSGPLEVPQV*LPGD LSEPPLGTSPLGRAPGLCSLLRA P/RPGAACPPASPSRPAMLLS*E APRRPGPSGETSPSPSLAPSEASP G\PPR\HHNGRDSEGAGTRTPGA SGSSKG/LGGQPAPHGPGGR*G GGRYRGSAAGSVHSAPGGCSP HAPGCA/CDVRG/AKPSHFHSG CQSG*GHQTSGGCPHLGLSPCS TCLCAGQLQQK/PGSSSGNL* GQGHSSGDLGSAPPHLVPG\PG PLTAGGHG/SLVGDSEWGSPAP GAVLGQNSSGPDQQRAGRWC SRAEKSGCYTAPPLG*LSAQFQ EEKASWVPPGSGQLEDSDPDY TALPLAAPPWGTGTGCPPAWP RL/EPDDCGPRHLSPTCSTLPS WGGCAGS
14103	44471	A	14185	264	643	RCLRPGEGRSRQGRSRTGRGK AEEGGARTRQQRRAALLPERS ASQPGPRDSPRWRRRRQTTRGR ARPASSGGT*GSSWLTAWPPR EP*RLRSASAQG/CRRQRLQQR RRGLYQPHRPATCGPRAAD
14104	44472	A	14186	114	1039	QSQRRLPLADTPRRSNRPCSAA GLLFPQSFWSQELSQGAFLLPPS SPCLHCLPGTAAASRHQRSPRT RPSVQERRETHGLCAHRCEWR AGSPAHP*AHRFVSRAGSPA GP*AHRCISRAGTPARGPYSR* VSEAGSPA/AVVSAPCSLSS*AC VTG\CSPAHP*AHRCASRAASP EHTSREDAEQAP*MQGLCPVH QEPPSRKSVVTSPHIPPETDCR LLPKNPCANKHQPTATGGRAV PPEVQHVPFRSGMTLGSHQPLA LQFQMQUATDAARLGLSPQGQG SPPGPRSTLLGCLSLFQLSLLR

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14105	44473	A	14187	1	1629	MIIYVENPKQSTSKCVRAYTFS KVAGHKAIEKRLEKLAVDPHR DRAQMLKVENVQQAQQWIN KLPPARREDEDVKEIRWMIEEL RVSYFAQQLDHTGVDRGQPGA STWSASLMCSVTQPKLKTRKP GFLGLGERNCFSVYGAGRSW GRGLGSCGFWLPPRTRIRAADV CLARWGWRHRVRVLAKNS RAESMLWSFHKAIEAARTNII QAQTRVEAAQATERRIAADIDD SELKAPRDGRVQYRVAKPGEV LAAGGRVLNMVDLSDVYMTFF LPTEQAGTLKLGGEARLILDA PDLRIPATISFVASVAQFTPKT V ETSDERLKL MFRVKARIPPELL QQHLEYVKTGLPGVAWSFLYSI NQTICLR LDSIEAKLQALEATC KSLEEKLDLVTNKQHSPIQVPM VAGSPLRTTQMCNKVR/CVNP* ATVVPPPVPQPTTQQYQGLDA GATTRVPRSLRSEGSQTQKSP SCGSHSQDNSSGRKAVGARRD RWWLGAGKGPDCRGAKCGLP LSGQKCPTLDPYQVVGCTSKTG
14106	44474	A	14188	3	1010	GLQTQLVPLSSPVASLDNFSNL FGADLHVEKGQVPSSDQHLSQ RCHFPKAPPWSVCKALLPRSNP ATSLSGTSKPNSSGDFNSVTKS QPHCELNSFVL TGHSPLWMM SEHDLADVQIAVEDLSPDHP VQSCGTVVVLENHVV TDEDEP ALKRQRLEINCQDPSIKSFLYSI NQTICLR LDSIEAKLQALEATC KSLEEKLDLVTNKQHSPIQVPM VAGSPLGATQTCNKVRCVVPQ TTVILNDRQN/DHCSQDGRPL EQQGTGFP GKMSLASQ*HGTNP TFPCHCAESHENKSTLSQGT V QHTLHLCGHRVEPGRHRPSSLR SGRAGWAMLNA
14107	44475	A	14189	1	1710	
14108	44476	A	14190	52	457	
14109	44477	C	14191	1	838	
14110	44478	A	14192	92	514	
14111	44479	B	14193	1	531	
14112	44480	A	14194	1628	2008	

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14113	44481	A	14195	2	1616	CPPRRRPRPRAPPHHRPPAAGARTAAAGDRSRHGPASRVGTGPGQQMRKTYCRNSEPSDLDDQGGSRGGPRRQSKCVRNWWVLGLTDFKNEAADPHDSGAQLASPSGFRTRAAGGAACQSRAMRSYSSALGWSMGLGAVEQGVVLVGEAQAAQEPMEWVGSGMVGCRSRAPPAGRQLRPDKKLSTAPVGRHRWRPSTPSAATGLGAKSLIARGQQGRLAAPNKTDFKARAVKDKKEGHYIMIKGLVQKESITIINIYAPNTGAPKFTKQLPLDLRNKTDSENTIIVGYFSTPLTALNRSSRKVNKETMDLNYTLEQMDLTDIYRTFYPTTAEYIFYSSEHGTFSKTDRMIGHKTSLNKFKKIEIPSTLPDHSGIKLEINSKKNLQNQTNTWKLNNLLSDHWVNNEIKMEILKFFKPNDNSDTTYQNLWDTAKAVLTGKFIALNAYIKKSERAQVDNLRSHLKELEK*EQTKPKPSRRKEIMKIRAELENEIKT/QKIQKINKSQSWFCEKINKIGRPLARLSKKGREKIQISSIRKK
14114	44482	A	14196	1097	1686	APRPLALRFGPLPSNSGAQLASPSGSCTGLQVELPANSCTVRWQVSALGWSMGP/PGAGGSADQGGSGGTGAHGGVGRFRHGAAGPEPCPMGEVAKAPARNRAQRQWAGTAGGPCASS/NSC*PGC*APYCPGWGQPAAPSAGPPSPRPPRTRAGPQAPWAAPVPAHASP\PHLPAS*GSPLRPGIQGSKTYQKSH
14115	44483	A	14197	647	1496	FLNLLSWQNMLCGLKKKRRKQFKDYEKKVKELNEERDKYRKGSVYIYTFGKEPTLNKVLDACDGKFQAIDFITPGTQYFMGCRWSCLPVLHICALAGLSPWVVDGTRRPGAVGSAGRGGSGGTGAHGGVGRFRHGGQLQVRSPAHEVLRPEKSSAAQWAGTAGGPCASSTAADLGAKPLTARGGGPAG\PPSAGPPSPRPPRTRAGP/PSTVGSPG/SPPTPLPHLPAS*GSPSGLGQPRKGLPQCSGGLKGWLLKHRQSGCPGRGGAQSERGLRGLPARC

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14116	44484	A	14198	1	560	MAALLLVGASWL/LLLLVGASWLLARVLAW/TYAFYDNCHRLQCFQQ/PPKRNCF*GHLSLCGA/TEEDMRLMEDL/VPLFRDVQLWWLGSFYFVPL/SLVHPTFTAPVLQASGG*PGFTTTMGLSFKRAKWQRLA/SEGSVRLEMFEHISLMTLDSLQKCIFSFDSHCQMVSPGSCTTSRGPRIPGALPTGGARAPENGDPKEIE
14117	44485	A	14199	175	2225	RWSSVSFASGMPSAPCCWGHPQCPSAAQPTGPSWAGCRGLTM PNGQASPAS*VPPGAFPFCLIKQPLWENLMTGVGKFSREAAATLEGPTLPTR/GVGPQCRQIADLPLE RTEGWRGD\GNPVRGVVRQKRKQLVAGETAASLLPCQASGESCSVP*QARGPPVLFPLQ\WGRRWAKGCASRSCF*PDFRPSHAVPGA REGAGLAAAPKRVARLSPA VPPACC\GLQGGSSSAAQAL*PQLSGPRLPREK*GA/PCWRGGPRCC PQNSAPETLEYVEPRGTGAPGT THTGLPSPSQGCRGAEGW/WGLPGLPGPRAGSSQPRGRAWRPRARTPPASWAAKGRGRPLAAGGLARPRDPGPGSGVAPAGSLRPHSSGRGWGRRRLRARPTGGNRGSEWPR/RPPGYPGARPGAPSVPRPQP/PAA*TRPLPVGCGARPFHPVPATV\VPHAGPP/SGMGRRRG RYPRPASARPAGRCGAGSAEPGRGTDKGGDGGEGKTKRGGG/LGGGAGAPKAAPGAAEPMGGRGAGAGGGGA\R*GGGGGGGSGTTGSGSSSRPPRTRAPPETDPA PRPRPGLVRAAGGGAASGSGTGRGAEGCGVRAARGVPASLR AALARGAQARVLVSGPAPGWA EPRPAGGARGVGWGPVLAGP GRGPRGGAGRGPRALSRGCAA*AWTPGRGAGQRGPGSGRGS



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14118	44486	A	14200	1	2850	MHPQERTAAATNAAIIITDGAA TQMGVTSTPAPGHPRDGYYQG KDVSLLAHTHSFKISAAIEAKTT WVGMCRWGCKVALDVTDFVH QKGPEGAGRNKQIPFIQDFPFAL RSEKRPSLPATISGKTLPLNKT CPQLLQCKREGHSLQCLIWLQ MVPQLGRLAVGGCHSNWFP KKAVIWEKFKHNLSGLVSDKG GKRTGKGLGECLLMRMKMS ALEALTTFDSSLQHHPRTFPVS ALEALNPGKPRQLVTPA
14119	44487	A	14201	1	1570	MQSATSDAGSAPKKQKKVMTL QEKSGIAWYFFTAQEWNP KLRTCTESMGCCLLDCCCTGQ GDWTRVTLYCRYPFILFGTNA WVANFERPRMNANSLASPTG LSPYLRFGCLSCRLFYFKLTDL YKKTTLGSLPDAAMAFVNCHG AGGTVAVRTSRGHSRCHFGFG VSGTRYHYLTPQVWVERQQQK VDSLLGTQQMLEAQGREF/PGP CIPLPVPTNAPAAKTTQPPSPD L*PPNYLFLCVDGHRPIC*EPKQ NKSDSFTSQA*SQDG*YCGCS/C RAPRPHGTSATIPMSSSCKRFQP SSPF/CKGPYHFRFLEERPLASRP SIHPSCGSYWRLGCVAVGRTG /SRLNLQLHSASGLQALSKQR*R YCQSAGAGSPEPPRGGTR*CCR EAAPGCRAAGTCPSAANLPSLR RK/PGTC*PQNPPGRCGSCGASA AVLAETPARIRRSFPRARQSCPR TWMAAGAPGSSRRQGTKHVT* *SSTLEKQLDNPTATYFSVPTRK PVH*NQQKDL*VTG*LQIFHL
14120	44488	A	14202	11	356	VSGPPR*APWCPCLAAPTGSTS HGSTARDSSTACKVS/GGATCV/ SGCGPGLGVLGRGLSSTRSCCM PAG*CPSSKDTCEKSGGRTQPV PPFEWAAQDASLVRRCRILAHR PCRGTS
14121	44489	C	14204	333	473	

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14122	44490	A	14205	344	1035	QSAAQWFWWPGRSASLGGAK GMQPPSLASWPHPRSIRCLR AP*QFTNATDPRFRSAPRRSGQ QQPRGSSGPAALASPSRQPNR AGALRTGGAGWATALDTWSC PRTRRRAPMGSL*AAAQQCV TGATWPPPSAIA*QSAAQWFW WPGRSASLGGAKGMQPPSLAS WPHPRSIRCLRAPPCSGPSASS AAVQVACCCSLACCGSRPASQ GHLDGTPITSPETCTTSLWSPQR RRAAGPPKVVDIPD*RGSRRLPS GRGAPNTTCIPYGGSPGAKWIE GCPAQ/RPSPGLHPAMRASAL LLMPFLQRRHRSATRLLRPGS DCTGKK/GKGFLAGPETKRQKR LCPSPKTLGRALGQQEALPANV RC
14123	44491	A	14206	41	292	
14124	44492	C	14207	480	1637	
14125	44493	A	14208	3	410	SPPCGAPPPVFCAPAPRAPAPP RAPPLAEALPGFASAAGSAPA RSGPAGAG*GSRSRPRARASAS LAPASAGDHLGYPSATAAAAP ASRPWLWRPSLNAARLGDPAC GWQASQWAAGSA*RAGSQWA AGEARA
14126	44494	A	14209	1	1274	FFFFHPLRSLGDLGLHSQERSA PEIKPGALESTWSQARGAALRL AEAR*RAAPAAGTACSAGGAA SSPR*GSRATRRRRRGPTAPSRA ATAPGRGAAASAAPAARPART ALMASARGPP/TAASPAQALTR SAPGHLPPMSELGAVTALCESC PVT/AAPRSGGGEAGGTLASEW GRTCRNYG/PAPGIWPRPPLSAA RPAAASPPARRIWSPAPVHSA ASPIGLRVAAPCSSGSAVPLRSR RASPPCGAPPPVFCAPAAPAP APRAPPLAEALPGFASAAAC RGKLRALQGGGLRSGSRSRQE GPAAGS*LRTGKSWSPPPGSA PLPLAQVLQALVEAGSRSPRA RASASLAPASAGDHLGYPSATA AAAPASRPWLWRPSLNAARLG DPACGWQASQWAAGSA*RAGS QWAAGEARG
14127	44495	A	14210	2	335	

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14128	44496	A	14211	344	1062	TRA EVTQQKLSRFASPPPVLRL RSYVSPPAAPTADPRWRPSWST SLRWVVKPNVSAYRIPPRASNR GYRASDWKLDYA*\WTGRLRIT SKGKTAYIKLEDKVS GELFAQA PVEQYPGIAVETVTDSSRYFVI\ RISDGTGRSAFIGIGFTDRGDAF DFNVSLQDHF KWVKQESEISKE SQEMDARPKLDLGFKEGQTIKL CIGLCSKPGTTAIQLGPVLNGIG RTLRTDLRNKNDLEGTNL
14129	44497	A	14212	573	1017	TDQGVGSPHCPRFQQGPPRSPR FQQRSPHSPDSSRG/PPHSPRFQ QGSPTPDSSSG/PPYSPDYSSG HPTP/HTSQQGIPC*DGHWLPC GPVFLWSEAPHLNPGLGVWGQ PRAPALPGNSAESKLWPHDRPA RPETPGAGTAWAHQALRV
14130	44498	A	14213	707	836	
14131	44499	A	14214	724	927	SFMDFRFVLLFFHLVPNPK*RP VS/SPPGSKLLVPPWGPKTPVPP HPSPPPPAHGEPGLPPPPPLPH
14132	44500	A	14215	29	157	
14133	44501	A	14216	I	363	
14134	44502	A	14217	770	952	
14135	44503	A	14218	1053	1995	KSSEPDLSHSFIFCSPNFPSSSL KRPH\FQSSILACVFCITADSSRA PCVLRVCDGFAGLTRSSAPSSK EKPCGFSLPEFTPLAVSFPQAAL CSLGTVSLRPRPQLTPSWEC VLLAGAVCPGLPCAAIGCPWA GEEGCPGATSQLDQVSWPSLQE APEVLWPCLDSWGWFAPSTV IPLMASPRFGFMGRSQPVLIN HLIKEPKAKFSNKNHSIRCCQG QRKWRRGNAAGMCCQPQIPGK GEVKTEFQPVSNRSVNYGCTM HFQETLWTPRLGLGDGDSNNN NNNNNNNRITANPGKEAEKPE HPLL VKM
14136	44504	A	14219	482	833	THQGARGCTHARVSVREMRTR RGRWATGMRVPAPCSSVHTTA VQRQQVADQLQTAE LSME/IL N/KWDQDPEAFVRKVATSYET WIS*YYPEDKAQSKQWLPRSGS GATLYSATNQYP
14137	44505	A	14220	195	367	

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14138	44506	A	14221	989	2210	LLVSCAILLSVSFLHSSSFVRSRS NRDSPACVDATYRGCSQGE VCGEACSCFPDLNQPQGVHAG EGVLPCSGWEDTFGKNTCLVS YQQIPNKRRPCTCEECGKAFGQ RSHLVQHTSEKLYACQECGCTF SNNSSLVKHWHVHTGEKPYMC GHCGKCFRESSSLAKHQRVHT GEKPYVC/GESTHLVQHW*FHT GEKPFAC/HR/CSKAFADFSALL ACHGTYTGERPYECRVCCAFS PSLSLAEHIRCHTGEKLYACQE CGKAFSHSSSLSKHQVHTECG KAFSQGSYLTQHLKIHSGEKPYI RGEHPYACGKCGKTFSHSKFLT QHEQVRMGEKPFMCGDCGRA MQTSSLALHQRTNGEKPYKW NECGKSCIQMSHLTEYYQNLPE KGSKDPHTDATVHSPVMD
14139	44507	A	14222	1	245	PPFRKQQAQHRNKTVLVSRSP VPVTVPE/PSA*RSTPEGPRRAG CDPRP*PCPAGPELPAQMKVLA IEQLLSLHFKKALLF
14140	44508	A	14223	477	947	LCSLSSLPPPPPPPPPPPPPP PPPPSPVPLPPSPRSPVSPPPH SFQGRSPSELGSSAEPWLRPGT WV*/PPPLTFSQQEAASSAQK*N CPGES\QPVPVTVPERQPDAA NHSLLLPGQQCFWCQGPHPY WMGPVDASSGFLSQSFY
14141	44509	B	14224	438	1437	

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14142	44510	A	14225	584	2866	WHFAKLSRNTQDHTRPTLGAA QAVPATGQPAAPGPAGAGPEW VPFLAVYKEQLVRNDSVLKVFF FPPIFYREGWVCCSVVESHLE GFVWLFSLQL*PPKLRSLFSLSY CLSP\SDIEISRGQTPKAVDVLA KEIGLLADEIEIYGKILVSSAGF A*VVWEIL*NSLSPPELRITPTPL GEGKSTVTIGLVQAVSLGLCPS WQLYLVTALQPGQQSETFLK INK*KDILFL*FNLHLTGDIHVVI SCELSKFMDN*LLCGLIFVLCFF RGIILVTLCFLFLKLLTFFLLNH *KLGINKTDPIRTMPDTHQVAG PYLSTADD*SVLFQ*SPAPCGNG HPTGTVADHYLCLGW/YQAQF DIAVASEIMAVLALTDSLGREV PRG*PLPG*YFVRNLMFFSHLPQ IDLGFHASVCLLGF*FAFSL*G TPVFVHAGPFAADRDLCPYQFL LCQTHIYKIHVIMAIEYFQRYKL MMYAKQTSPLCDLEQAISLSGC VPCRHSHLKNEKFSCTGC*QYL PKLSLPNSDPLTLFSAIDYGFKF ESNHANHSGDCQNLPLFLEDNS TYSTCFPTVTEAGFGADIGMEK FFNIKCRDVVLSFRSVV*AFLLL AV*LGRFGGRQYTGWVLLFS FLQNIQLVADGV*MVSLSLKT* LNGYRCKTTNIFFTRTDTRAEID LVCELAKRAGAFDAVPCYHWS VGGKGSVDLARAVREAASKRS
14143	44511	A	14226	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLLDGLHAVAIAIQG ITKIETTPNHQRAPAHWTLTQ QAHLPSPHLHFNPLTLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAEGDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLPIDP KHHYGPVVKVG\AYGAQLL

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14144	44512	A	14227	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPGPRTHPVVIFPVPECIIGIDMLSSRQNPHTGSLTRVWTIMVRKAKWKPLELPLPRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRMTVGYCKLNQVVTPIAAAVPDVVSLLEQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYTFTVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREHIPHL/PIYRVSRKAANFEWSPEQEALQQVQAAVQAAWPLGPYDPADPMVLEVSADRDADWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGQRRWWQLAERQDSRDREAAIGERQETA VGKTARDGEAVCD
14145	44513	A	14228	155	531	GNLWSVDLRPGTPLRQNFRTIRQQHSRFTKNHCSQTPLLIPRQTGSGVDLSKLQQTCS*GSCLVCTIDLANAFFSIPVHKA/HQKQFAFSWQ/YTFTVLPRLTWLQPC*V PNLPAETNTEPSNGT
14146	44514	A	14229	1	518	MTVDYCKLNQVVIPIAAVSDVVSLEQINTSPGTWYAAIDLANAFFSIPVHKAQQKQFAFSWQQQYTFTVLPQWYINSPALCHNLIRDLDCFSLPLDITLVHYIDIMLIGSTIKWVVHSS/DSIIKWKWYVHDWARAGPEGTTNGLAG*SGTCKKHEWKTGDKGIRGRG
14147	44515	A	14230	281	1140	VRVLSPEKELKLWKNTHKLLSYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGDLPFTRVTVHWGKG/NMQIFGGLLDTGSELTLPKDPKHHCPPVKVGAYGGQVINGVLAQVQITVGPQTHPVVISPVPECIIGIDILSSWQNPHTGSLTGIMVGKAKWKQLELPLPRKIVNQKPYCIPGGTVEISATIKDLKDAGVVIPTTSLFNSPIWPVQKTDGSRMTVGYRRLNQVVTPIAAAVPDVVSLLEQINTSPGTWYAAIDMANAFFSIPVH
14148	44516	B	14231	1	1521	
14149	44517	A	14232	3	202	
14150	44518	A	14233	2	367	

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14151	44519	A	14234	1	553	MTVDYCKLNQVVIPIAAAVSD VVSLLAQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRDLDCFSPLDITLVHYIDDI MLIG\PRQLLACY/WALVETEHL TISHQVTMRPELPIMNWVLFDP SSHKVGCAQQHSIIKWVYVH DWARAGPEGT
14152	44520	A	14235	3	728	
14153	44521	A	14236	1	635	
14154	44522	A	14237	3	266	
14155	44523	A	14238	1	1245	
14156	44524	A	14239	2	837	CHCGPP/VKVEAYGSQVLKGV AQVQLTVGPVGPRTHPVVF PECIIGIDMLSSRQNPHTGSL RVWTIMVRKAKWKPLEPLPR KIVNQKQYHIPEGIVEISATIK LKDAGVVIPTTSPFNSPIWPV QKTDGSRMTVGYCKLNQVVT PIAAVDPDVVSLLAQINTPPG TWYAAIDLANDFFPIPVHKA HQKQFAFRWQGRQYTFTVLP QGRWEINMTKIQGPSTSVK FLGVQWCGACQDIPSKVKD KLLHLVPPTTKK/EAQCLSG FRREHIPHL
14157	44525	A	14240	1	533	
14158	44526	A	14241	1	1043	MTVDYHKLNQVVTPIAAAVPD VVSFIEQINTSPGIWYAAIDLA N VFFSIPVHKAHQKQSVFCWQ GQEYTFTVLPQVHINCPALCH NPI LRDFDHFSLPQDITLVHY IDDIM LIGPV*NMLLHLVPPT TKKETQHLEVLFGFWRQHIPH LATPSSP NGPMNKVTMMA/ ANVGAWD QKHGLPLTKANLV MAIGECV/ SPAAETNTEPSI WHHSSGQDSQ VQESKGGNGS GTTHHP**STS KIFASCSHDIT FCWPRGLSSRGR NAATRRHN NNFIKPEVKIAFWT LWDPTFK STG*ERS*SVGWW D*HELPR* NQSTTPQGSVSIIPH GQPPH QLFGVAKARTFGIT
14159	44527	A	14242	1	336	
14160	44528	A	14243	3	1885	
14161	44529	B	14244	1	1423	

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14162	44530	A	14245	1	1361	MIISIDAEKAFDKIQQPFMLKTL SKLEETASPSPVVATYTPQPM PSAFPPLSEEINPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIQRLK KIGMVEWISHFRPTPLSMGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAALNHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKYHIPGAITEISATIE DLKETGVVILTTSFVKSSIWPLQ KTDGSRMTVNYHKLNQVET PIAAAVPDVVSLEQINTSPGT WYAAIDLNVFFSIPVYKAHQK QFAFSWQGQQYTFTFLPQGYIN SPDITLVHYIDIMLIGSSEQEV ANTLDLLPARVASWGVYPYDQL T/GGRED*GLLHRWSCRICRHH PQGSWIQES
14163	44531	A	14246	1	1795	MRKCGKPQFKLGQTNKANSRI QEELIHSKSLIEQEGEKPVQFSA FHRMWQPADSQCDIIDSADIWA DPLVRHREIITGSGGINRRRTRG GRGRGGEAAGGAENCGSREER ERAGVGTAVTQLQNLNTIGIIGS RGGRGQVAAINHQROGGHSYC KGQQKQNSNQNSVTHVELWH WLINHSVPRSEIDRKPTTFLNL YKQKTSRDLWPFTRVTLHRGK RNDQTFQGLLDTGSELMLIPED TKHHCPPVKVEAYGGQVING VLAQIQLTVGPVGSNGTHPVVIY PVPECIIGIGILSSWQNPHIGSLT SRKTDGSRMTVHYHKLNQ VTPIAAAIPDVVSLEQVNTSPG SWYAAIDLANAFFIPVHKAHQ KQFAFSWQGQQYTFTVLPQGE TLVNFSLPQDITLFHYIDIMQI GSSDQEVANTLDLLPRKSTTPS G/LYGFWRQHIS/HLGLLLTPIY* VTQKAA/SFEWGLEQEALQQ VQATVQASLPLGVYDPADPMV IEM/SLSDPSSHKVGCQQHSII KWKRYVCDQA*ASPEGTS*LY CTSFIMEKEEVC/LSLEQTLTD MGLPILHAMLWHLWIHGLPY PSSWYSTQQCL



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14164	44532	A	14247	55	1241	NRFVRAAPASLKRSAGIGLLCM PDLTVGIVVTQLKNLNAMEGITG SELTLPDGP*K*HFGPPVKVGAF GGEIVNKYLAQLGLTDDPVGPR THPVAIFPVPECHIGIDILSSLQNP HIGSLTGRVRAIMKGKAIMKGY YEGKGKAKWKILELPLPRKIIN QKQYRIPGGIVEMSATIEELKY AGVVIPIPTTFPLNSPIWVRKT DGCWRMTVDYCELNQVVTPT AATVPDVVSLEQINTSPGTWY ADIDLANAVFSIPVHKAHQKQF AFSWQGGQYTFTVLPQG\WTV NSPALGHNLIGRDLDRFSFPRDI TLLVHYVDDIMLIGSSEQEVAN ALDLLVFSDHIAIKWVMHSSIA SSSGSGICVIRLKKVLKAQPAP MASWGVLYDQLTEEEKIRA
14165	44533	B	14248	1	346	
14166	44534	A	14249	485	717	
14167	44535	A	14250	1	345	
14168	44536	A	14251	300	689	TKRAPCSPAAGSRGRARSLALL TLYHGHYPALPPGPTPAQQPGR GLAEAAEPRGSEGGNGSNPCG RA*DGRSRREGRGRLGGWRPC CEPQPWRQAHPAGPDRVDGG ERRGAGVLRGQDQGDEKKKPK

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14169	44537	A	14252	1	2430	MAVLQPSRHLRPQLGLEPDN WHSQQDEVSSVATARAVVPSG RGAAWMGPSGNIGGSGLV SHE CGEGTGAAGSTQLQEGMHFCR QSRWAFALTALCEVYTQSLQDT VQWLQLCQWSAQGQDDHTLIE WLMGATWTVWNDAREIPETG TGQDAWLCGSWGVDQRP HV ELAIHCSPTNVQRV LALVD TGA DCSLVFGNPVRKPDGTWQMTV DDWELNKVTPPLHAAVPSIMD LTDH LTMELGQYHFVDYVHSP TICRGLVAMELAAWKCPKGV L LFHYIDDIMLTSDSLADLK VAV PLLWQH LAACGWAINKSKVQ WPGLSAKFLGVIWLSKTKA IPE AIIEKIQAYPRPTTMKQLQTFVG LLEYWRPFVPHLAQMIKPLYGL SKKGATWDWDNEAGTDLLAA KWAIQQTQALQVIDQGC PFELD VHVTTDGF GWVLWQRM ECFR TPVGFWSQLWKGAELQYSLIQ KELAAA YAALQAYETVTDWA TVIVQMSYP IVGWTGTAQT TLL AKRGAYLEQQSMLTTT PLAAE LQEALGP IVLMEDKAMGPEAPL DPEPSLLKKGYP LVPDGA WYT DGSSQGAAAAWTA VAIQP/ITD TI*FDTGCGQSTQWAE LR VVE\ MDILEACQKCPACAQAYLRQR QLPNVTQQVTVGQMPLTRWQI DYAEPLPKLQGYTYALMAADI
14170	44538	A	14253	2	239	
14171	44539	A	14254	3	211	VVYYS PNEVKVVAEGFDSANG INISPDDKYGPL*NIFLQLWC WPNSLLCFLCQCENSFLDIYGIL
14172	44540	B	14255	13	87	
14173	44541	A	14256	42	854	VLVFLTAALFILPTFSNSMMILQ VSGGPWT/VILRRGVLLGVAPP PSLPAL/PENSVYQERQECYAFN GTQRVVDGLIYNREEYVHFDS AVGEFLAVMELGRPIGEYFNSQ KDFMERKRADQLPDCRDPLMP D*GVWISPLGQQV PNLTAQKTL QHLP SKKEPQQHHDLLVYHVT DFYPDSIQVRCFLNGQEETAGV VSTNLIRNGDWT FQILEMLEMT PQQDRT*AGVQLLEVTLNLSLF FLEAQSDSVQSKMLTGARGLFI NYLQLNLCTP

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14174	44542	A	14257	3	571	QGRATPENYLFQGRQECYAFN GTQRFLERYIYNREEFARFDS VGEFRAVTELGRPAAEYWNSQ KDILEEKRAVPDRMCRHNYEL GGPMTLQRRVQPRVNVSPSKK GPLQHNNLLVCHVTDFYPGSIQ VRWFLNGQEETAG\VVSTNLIL NGDWTFQIVVMLEMTPQ/QGE DVYTCQVEHTSLDSPVTVIEW
14175	44543	A	14258	1	1677	
14176	44544	A	14259	2	430	
14177	44545	A	14260	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNQDT FQGLLDTGSELTLPDPRKHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQ/NSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT G\VIPTSPFNSPI*PMQKTGDSW RMTVDYL
14178	44546	A	14261	507	910	
14179	44547	A	14262	1	2898	
14180	44548	A	14263	1	2580	
14181	44549	B	14264	159	2657	
14182	44550	A	14265	142	377	NHLLRRQQWQTPFPSPWS/SPR SSSDCCGSSENFKPVDSLGLGSV GVGPTEPDHLDPWLPQPFQSGE RFCLAGVPGATG
14183	44551	A	14266	363	638	EVWKESGWHLAGAPLGQSFQ RKEQAVIFAVLQPLLVIKQTGS GVDLQQTPAHLQQRGLSGCLQ SLCSLTSS*PQRHPQNSSLVSN CVS
14184	44552	B	14267	1	2424	
14185	44553	B	14268	446	623	
14186	44554	A	14269	245	690	APSRSTWGSSTAARRNLKTR KLRTPTPPHQKPRNPHHGPPR TPSG*TPRNPDRPPG\PQVGGQ PGCWAPSQGRGWGLGC*RE EVPGGGHAGRHSTPVGG/DFFL QAGPWPPDASLPTNPFVLRGAS TPPHPLENNKDKFLLQK
14187	44555	A	14270	223	365	

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14188	44556	A	14271	1	687	MSEYIRVTEDENDIEIPSEDD GTVLLSTVTAQFPACGLRCRN PVSQCMRGVRLVEGILHAPDA GWRNPVYVVNYPKDNKRKMV LGLPWKTTEQDLKEYCSTFGD VLMVRQSQDEPLRSRKVFVGR RTEDMTEDELWEFFSQYGDVM DVFVPKPFRAFAFVPFADDQIA RSLCGEDSMKGISVHISNAEPK RNSNRQ/LRSGRFGGNPGGFGN QGGFESYQRCERKAV
14189	44557	A	14272	1	833	
14190	44558	A	14273	3	447	RGTAGGQPGNGPALAQSP*WC RLGSGGT*GKSPGTSQGRALPW CSC/SVSTWATAAPGSQQRASP CSWAQPGPLASLRLMPPLR* GHLGHLAWLQLFAAPCPVIHV AVMWSLLGIALRKVHGDWAPL AILSLVVCASNKLNKKKKK
14191	44559	A	14274	988	1803	RAARVPRAPEAVAHRWASAS EDDGTVLLSTVTAQFPACGLR CRNPVSQCMRGVRLVEGILHAP DAGWRNPVYVVNFGDVLMMR QSQDEPLRSRKVFVGRRTEDM TEDELWEFFSQYGDVMDVFVP KPFRAFAFVPFADDQIARSLCG EDSMKGISVHISNAEPKRNSNR Q/LRSGRFGGNPGGRLQGTRY PAPAPGSPGRAQGLGAG*SRPS GSWLSGHLQRPEQSVGRAPAA PRHAVRRSLRRLAALCRTRAR CRRACLHVSPQRRRH
14192	44560	A	14275	3	184	
14193	44561	A	14276	1	352	KAAMVRFKHRYLLCELVSDDP RCRLSLDDRVLSSLVRDTIARV HGTFGAAACISIGFAGTIRTCQK FLIQYNRRQLLILLQNCTDEGER EAIQKSVTRSCLL*EEEECEEA AKAME
14194	44562	A	14277	1	456	PTRAVEAAMVRFMHRYLLCEQ VCDDLRCRLSLDDRVLSSLVRD TIARVHGTFCAIACSIALALARA LNEEGNPEGWRDVAGASAGGR KKGHECPSPCTVFCTL/RYPNA YTVIGLLRCKKELYQVWVSVL YLMTYLENKGHRYPCFFNTLH
14195	44563	B	14278	34	267	

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14196	44564	A	14279	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSLIGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14197	44565	A	14280	2	1044	SSQMPSPQEGMCGKACTPALS QADSLCPLLRLASEVEGYWQM ACAEPYVQSEMNDHLSVWSLQ HGSTTLASMSFTTCSAFTNYWS PGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTSFVGLA GMGGIQNEKETMQSLRDRLAS YLDVRVGLTENWKLESKIQEH LEKNRL*LETEIEALKKELLFM KKNNEEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAEMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV
14198	44566	B	14281	247	857	

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14199	44567	A	14282	1	2104	LRGSELAGGVAAPDPSSRARAP GRGQGSEPPRRS*GRGRAPPA HTPLDDFPPGRAALSPGRGLSS RRDPGSAGRPLLLCLRPLHSP PPPRGCQAPAFQSLPSFHLALRL RSSGEEKLWGPRRAPAAP*SQR RKPDPARPGLAAA\PLRPV*AS D*GAAQVPPPSPLRDGGQPGR EGVGRRTPHRAAAWLLGE*AA DAAAFHWDGGRPPAAPARLLP GAPHHREDRVHHQPRGHPLQH QSPGDPTPAGEQHASRH*LCRN PETQKLRH*TSERRDGHREEEH TGTAGVPRSRPATQRPHAVPAG GLQPHRMLPALSSGAASGGEA EHGQLSGRGREEDGPVWPQLP AGLQGHFRGESPRWPPCLGDGS EN*PGPVQAEFSGG*DPAVSESE DNQPRSRQFLRLQREEKAKP\D QRFTYLPANVPIIKTEPTDDYEP APTCG/RGEPGVKSSPKTILQPA ARDATRPQLLPRGRLPALSAEK HPDASSPWREPQAPRPFSLCH QGRCQPGPLSPRTPAAGRRGPR RPG\VPRPVATHPGSPGQPPPAL LPQQ*MK*YEMTSPARAPTSC HIGALSSAGVC*LQQTCTFE*IN *THTWYHSEPPTD*MPGAEH*Y VQRLALQQEGKQGGRETTVSP GGEVIS*QKGGGRAEHGRPTV QGP/SHGNGPHAV*PHAQPFWH PWGSILEVPYLTRPSGHHRIEH
14200	44568	B	14283	41	4224	
14201	44569	B	14284	1	1332	
14202	44570	B	14285	140	215	
14203	44571	A	14286	234	657	VQQPGRGLDLSTDGPGGRSQV GLIWSCCCLH*AASGEPGGRC GS/GAPGPAGSALEFRARDGVP\ GVGGPSWESHSPAAATPPPAEC RGPGPTSPAPGEAAPEDREDG AAAPGRAEPASIVAPADGSQGG VLATQAGALGA

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14204	44572	A	14287	134	789	PDSSQAPSRNSTRPAASTRKSSS PPAARS\AGNELGSSRGDADPPP QNPTGPAPQSAEVPRCD/SSSA WASNGSSISPSFFSLRPWPSST/S KVPGAGHHTPPEGAGGASAR\S SSLAPSAGAPVPSA*RSQLGTW LSVLRPRSL*QSRVRSPPSHVSS PGSMQAPNSPSSFQPGMNGAWI WWL*THIPLARWPGPPGILVITC PTVTWIKWSFICSFHPT
14205	44573	A	14288	465	1541	GPPKRKLISNFSKVSQYKINVQ KS*AFLYSKK/QTESQIMSELPF TIASKRIKYLGIQLTRDMKDLF KENYKPLLNEIKEDTNIWKNIP CSWIGRJNIVKIAILPKVIYRFNA IPIKLPMTSFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DLNLYYKATVTKTAWYWYQN RDIDQWNRTEPSEIIPHIYNHLIF DKPDKNKQWGNDSL FNKWCW ENWLSICRRLKLDPFLTPYKKIN SRWIKDLNVRPKTIKTLEENLG NTIEDIGMGKDFMTKTPKAMK TKAKIEKWDLIKLSFCTAKET TIRSGSEQSHTLVRATRLVSD HSQSFEAWLQFLGDTFRGTQKL RDSD
14206	44574	A	14289	1921	3199	GYLAAGQVTSRIHTGRRHFSGP ARCPVSCCRRPGC*PQPAVRP SG*HCRKTAPSHGPSIWQTR**P GSWPNL RPG*GWRWLRAPRG RGIPVGCRSNLQLHPTKNPGSH *GSGSPWQCPGVLL*ASGRQPG SPSGGCT*SSGKAGLEPQWHPA IPGHCRNKPAAPASWERAPRPR AHALACGWWRYSSC*SWRS*S SPETPGPAQV*CHRPCPAAWW RCHS**TAQFL*D*FS*FLQTIGE PCICPKPISVPH*PMKQSHRGIG GCLQYSSHPIESSLGMSRGF/D RRDL*TLQIGS*RHPRAGPEGA AL*CLAGESSLRTSPAPCPGSPH TPGSSASGNTSPV**ETGCGSRQ GSARLVLESLLSR**CLSGPSRP SCLLRGISWQCGTAGRLSSSGPP AASGAGADAAPGGFPRLPCLEF GTV
14207	44575	A	14290	3	626	

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14208	44576	A	14291	1	1065	MRGSCERSGEDEEQKEEAMVA CGRLSGVPEAEQGPEANWDS LETEGTDGLGELVRDTLYLRSC RAHSVVPISCFLRQGS AQELNL RHRGLGPQGARALASSLSSNPY VKRLDLRDNGLCGAGAEALAG AL/QKQKQHP*CGPVGEPAGSG RSPGP/RVPPSQ/CNQAMRKM LSGNGLLEEQAQHLAELLAH TDLKSLDLSYNQLNDQAGPAPS LRAFPQANIFLKVLDISYNGFG DPGASAVGEALKANNVLEELN MSNNRISAMGALSGLGLRVN QTLRILVLCVRVSQVSRNPMRS EGCFGLLSVQDNPASALELLD FSDIQVNAEFDGLASSVRGILPG LGIKDWRLQSGV
14209	44577	A	14292	1	416	
14210	44578	A	14293	2	384	ELWVVTSMAYGSAKDLICTH FMDGMNELAIAYILQGVLKAL DYIHHMGYVHR/DLQGYDAKS DIYSVGITACELANGHVPFKDM PATQMLLEKLN GTVPCLLDTST IPAEELTMSPSRSVANSGLMTA
14211	44579	C	14294	142	474	
14212	44580	A	14295	1	1470	
14213	44581	C	14296	91	471	
14214	44582	C	14297	195	480	
14215	44583	A	14298	121	1130	SRSTQYELMSFLTNDASSESIAS FSKQEVMSFLPEGGWYELLTV IGKGFEDLMTVNLARYKPTGE YVTVRRINLEACSNE MVTF LQG ELHVYKLFNHPNIVPYRATFIA DNELWVVTSMAYGSAKDLIC THFMDGMNELAIAYILQGVLK ALDYIHHMGYVHRSVKASHILI SVDGKVYLSGLRSNLSMISHGQ RQRVVHDFPKYSVKVLPWLS EVLQQLQGYDAKSDIYSVGIT ACELANGHVPFKDM PATQP/M VLVLSSPDAARETERHSALPVG YQHHPR*GADHEPFALSGQLW PE*QPDHQHPPALQR*LALPPLP PNLLPPLPLC
14216	44584	A	14299	304	412	
14217	44585	A	14300	2	350	
14218	44586	A	14301	191	299	HRPATAVLHVPTSPSPGSRPS *PPPAALLWTPA



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14219	44587	A	14302	537	5523	LARYYKFMHQDRQGVARNLL CQKEKRR*YTTKCEDNTCHWT GRTSS*PRSV/SNLNSQCGPRLW PPVTIIRQANIKTGEKAH*TSKL LPPVQLKFPARDDTLPWPGYIP* QLRRPSPR*SILSMLPRKVVPCL *QKP*TVCWKF*EPLSYIHHSLV LKMMIPMPMTLLGA*CLTQAL K*SRMERKKGRAAQRSSTLGC QSPRGSPGGGPGPPGPPGAGKQ QNSVQTSRLLARTLI*SFSSST VKDKELARNTAP
14220	44588	A	14303	2868	3095	PGWAGGLFGPSAGMRAWATK PSLTPPAPAGQRCPQGHGRG*SG PGIYAVQPPSVPAWAAHATTQ ARLCHPRSPPLR
14221	44589	A	14304	693	821	SDRQT*RQEKRLTRRQSCCLPC N*SFQPETTFLFHGPDTFHDN
14222	44590	A	14305	338	645	
14223	44591	B	14306	181	480	
14224	44592	A	14307	155	543	
14225	44593	B	14308	1	1260	

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14226	44594	A	14309	1	2025	VINIINAAQESSMPVTEALDRV LEILRTTELYSPQFGAKDDDPH ANDLVGGLMSDTGLEIHKDGE EGESRTAQQYPGLSESTRQPWR RSRTPRTTWGWKATEQQCPDF PPPGPHPHLELLIFHCEGQGTGQ KHSTYPCTLMSEKRLMNVFF AKYTGPMARKSSGLTPSLLHLY CADPLHSKPLFNCPPTTSKTEI LGSCNCSPSESVRGAEKGDQEL LANIKQAEKHEKNHPEVTVM ALTDIDLQLQFSMSQPEALLLL AAGPADHLLLQLYSGHLQSAT GIYGEGRASSATLEDLESQYQE LAVALDSSSTIISQLTENINSLVH TLKEEKHEIHQVQKLGRNLFKL KNQTAEPLAPEPPARPSKVEQL QDET NHLRKELESVGRQLQAE VENNQMLSLLNRRQEERLQEQ EGWQEEQERLLDKNNENKSAL QLEQQVKELKLAENLEATSQ*K QQ/TAQLSLMALPGEGDGGG HLDSEAEAPRPMNPBGDLES EAMVAFNSAGANAQEEQRCV CQPLAHPVASSQKKPEVAAPAP ETGGESVCGETHQALQGAMEK LQESTSARGQCQRSTGRGGHR QAGPGPGDEMLCTCTQVSS AGRGMGMLTVVLVSLMMLS ASFSTWCMRSISSCHCAYS SISVFWFPREYILASGSEMMNS
14227	44595	A	14310	3	564	SLRVSLKAVVDRAGSRILSYIA GLGVDLFGGGSRVAGGIADL GRSGGKATRSRRGSRAGGGR LRSRHHEALQLRETPGPGAPE\ PMDQEYAGPGYDIRDWELRKI HRAAIKGAAG/VWSAAMTRR FRDL DARDRKDRTVLHLTCAH GRVEVV TLLLSRRCQ\N DICD\N* NRTPLMKAVHCQEEA
14228	44596	A	14311	515	778	GQAQGTGDREGAVLFTARAPD QCRP*SCSSSRPTASSCPLGHSC SPGPLCTHLPLQGPQAPTVP ATATCWFSWNQCRCAVSSYP
14229	44597	A	14312	411	608	EAEIP*TGLPGHSRPPGPLCTHL PLQGPLGAAAWVPEAGLGQVP TEAAGARAGCSAHKPWKRRK
14230	44598	A	14313	2	338	
14231	44599	A	14314	1	390	

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14232	44600	A	14315	237	488	PWKTLDSSEAEILRGVSESSAV TLHCMEGQAVGPRQVKRIVHC *ASSA*NPHAMLLLQNR*LALC TSVPQGAAVLCGGWDPGN
14233	44601	A	14316	358	616	
14234	44602	A	14317	13	1155	IKLPPPGCRRRGRRHRRHYRG RAEPLAPRRRLPPAPEQPRARP PASRFLKNTMSNGYEDHMAED CRGDIGRTNLIVNYPQNMTQD ELRSLFSSIGEVESAKLIRDKVP GHSLGYGFVNYVTAKDAERAI NTLNG\LRLQSKTIKVSYPSS EVIKDANLYISGLPRTMTQKDV EDMF\SRFG\RIINSRVLVDQTTG LSRGVAFIRFDKRSEAEAEITSF NGHKPPGSSEPITVKFAANPNQ NKNVALLSQLYHSPARRFGGP VHHQAQRFRFSPMGVDHMSGL SGVNVPGNASSGWCIFIYNLGQ DADEGILWQMFGPFGAVTNVK VIRDFNTNKCKGFGFVTMTNY EEAAMAIASLNGYRLGDKILQV SFKTNKSHK

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14235	44603	A	14318	1	2340	MFVWRNVEGHSAAVFSWYSIP FLTPCSHTRPSNLPVTQWPPT ENNLPWQPLLMSVHQAQSL ALRKEQDSSEKDGRSPNKSDK DHIRWPMSGADLQQAAPGPG GAHQGHPNQDNRTVSQMLSER WYTLGPNEMQKYNLAFQNV ARIRYVIVRGNEQGFFRMHHLR GVSSLQLGRRRPGPGTYRLEV DMITIDARYRCSGLRSPDPDH LKSVDLHRNEHFFLQKARWEIH LVLQATPSQIQLLHVAFVLAKQ PLRCRKQTLFLISVVGTKENNV ASEGRNPVRPLRGHRWLPASPP AAEHFAGGADRKSRLSRAPRSA ATATPANEQRAVADVQWAR ARGGRVRAAGRSGSCALRRSR CRRRRRRHRRHRYRGRAEPLA PRRAASGQPGKLRARRGINCNA SSIPMLQVVRIKSISKHCQMAR VAGEGSLPLSHAQLTHCVFGN KQVQRTIAYLPPQQQGVQGF KNTMSNGYEDHMAEDCRGDIG RTNLIVNYLPQNMTQDELRSF SSIGEVESAKLIRDKVAVGLLSL CVPIRNVEIVASTSWWSLPLAP YVPRGIRRSQPSTLMDLSCRS HQAAAPFTASVLLYISGRVKAH TAAQGFNHIPEGVSQEAGSG WSQAWKDGWLTNVFMFSCTG HSLGYGFVNYVTAKDAERAIN TLNGLR/PPVKNH*GRPLQLGFL
14236	44604	A	14319	701	1050	LIVHFCLQVGCGVGNTVFPILQ TN/NTNSEYDPSRCFAFVHDL DEEKSYVPKSSLDIIILIFVLSAI VPDKMQKAINRLSRLKPGGM MLLRDYGRYDMAQLRFKKGIL KVLNPNH
14237	44605	A	14320	701	1519	LIVHFCLQVGCGVGNTVFPILQ TNNDPGLFVYCCDFSSTAIELV QTNSEYDPSRCFAFVHDLCD DEEKSYVPKGSLDIIILIFVLSAIV PDKMQKAINRLSRLKPGGMV LRLDYGRYDMAQLRFKKGQCLS GNFYVRGDGTRVYLCHTRCNW TRFSPTAGLEKPKPVDRRLQ VNRGKTTDNVPGLDVQILQAP SVQHQLRGYLLPTRCKPVVVS GLFLKKKIVALGVV/RCL*SQPL RRLRRGGSIE/HQQSNLKGIVRD PVSESNDKIKRI

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14238	44606	A	14321	756	1334	PGKFLVMSFLDPQPPTTRILEVGC GVGNTVFPIFTNRTMTQDSL VYCCDFSSTANELVQTNSEYDPSS VF\AFVQGPV**RESVTQCPRAV LDIIILIFVLSAIVPDKMQKAINR LSRLKPGGMMLLRDYGRYD MAQLRFKKEELDTLFTTAGLEK VQNLVDRRLQVNRGKQLTMY RVWQCKYCKPLLSSTS
14239	44607	A	14322	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
14240	44608	A	14323	1	5796	
14241	44609	A	14324	1	2721	
14242	44610	A	14325	1	3438	
14243	44611	A	14326	1	3306	
14244	44612	A	14327	1	2364	
14245	44613	A	14328	1	2091	
14246	44614	A	14329	1	2334	
14247	44615	A	14330	1	1986	
14248	44616	B	14331	1	2559	
14249	44617	A	14332	1	1671	
14250	44618	A	14333	1	1845	
14251	44619	B	14334	1	2055	
14252	44620	B	14335	1	1554	
14253	44621	A	14336	1	2559	
14254	44622	A	14337	1	1714	
14255	44623	A	14338	1537	2204	

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14256	44624	A	14339	2004	3751	YQSLAETQQQKKNFRPISLMN IDAKILNKILANRIQQHIQKLIH HDQEGFIPGMQGWFNHKSINV IQHINRTKDKNHMIIISVDAEKA FDKVQQHFMLKTLNKLIDIDGL EVLARAIRQEKEIKGIQSGKEEV KLSLFADDMIAYLENPIVSAQN LLKLISNFKVSGYKINVQKS\Q AFLYTNNRQTESQIMSELP\FTI ASKRIKYLGI\KLTRGVKDLFRE NYKL\PLIKEIREDTNKWKNI PCSWIGRMNIMKMAILPKVN\YRF NAIPIKLPMTFFIGLGKILLSSY GTTKRAHIAKTILRQKNKAGGI TLPDFKLYYKATVAKTAWYW YQNRDIDQWNRTEPSEIMPHIY NYLIFDKPEKNKQWGKDSL FNKWCWENWLAICRKLKLD PFLT PYRKINSRWIKDLNVRPKTIKTL EENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTKWENIFATY SSDKGLISRIYNELKQIYKKKT NPIKKWVKDMNRHFSKEDIYA AKKYMKKCSSSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRC WRGCGEIGTL
14257	44625	A	14340	519	1286	LNLEERAFRHSSEHLPHLKVH FRHSSCGIKTKSLLHVSPPTLIF PYPPLWGNPSN*ARPPCSVHSG PYPQGLASIIAHGSPGNVRGVH V*INDSEGGISRPSTASHKETPR PPTPARHADLAATRPSLTTPS \GAGPRA/PSRAGPSVGGGLGLRP SGRAPRAEVALPAGLSPAGLAG PPPSGRSTGALPPAAAPTSGP/P ASTPPNAPAPGHTLSSRSPHRA ARPPPHCGAEWGTGFTMRPSW RISQSFIVKDS
14258	44626	A	14341	482	700	

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14259	44627	A	14342	1368	2416	SSMTQSSCPMTSYLKSKEFGEPL MPSYTNPTETGVSKLVNKTQVF TYAHKGVPVSIYFDACQAAHLK LNNIWT\SVKI*DKKESASRATK AITEESKKECPDCDNQWTTHEF NQHLYTGRAALFASQEEKIGYT TGTCYPLNLTILKPNMTFWTKG HKGLLTFDQAGALLGLGIPLVI TKKTQRTQVQLSPIQQFRFYKS FNEHFNSEVSKIQIPPISTENLFV QLAKSIANNLGVTSYVCGGA NMRDQWPWEARELMLQDNFT LPEFVTKFNANPSVWLLRNPIIG KYCIACWGKSFQNGIGETTCLG QQYFEESNRTQWRSFIDDSS\G HFNPFLQFPTLNQSWYQLE
14260	44628	B	14343	1	1071	
14261	44629	C	14344	89	283	
14262	44630	A	14345	244	315	NPKGQKDREAPLSRSVFLKIKI KRAFALLHGRF*PSTPAASASP ASKSPRGSGKALASALFYIVQL TK
14263	44631	A	14346	1228	1656	QVYRPSQTPHLALSPERVAPGR RAAGRLAPEARAPRGSP/LPPHR VSEKTIRVVVFHFGARRAGGTP PRAPRGDTGGAPGA\PTYSTPL MSLHRARLESSPTGSSFPADSA KPVPLAVVSLDSR*GQWESRSS IHA\VTN*MTRH
14264	44632	A	14347	2	705	GSWPGLDDGSATRILACPWPGL GDGPAAPKANLPLVRWKPCF RGEGL*GSSCFSATLLTGLDLW ACSSRSTASARLSTYPSAFTSG WCSSLGPTEEAPGSWINCPLAG ILGAATSPKPSAIPQASPEVSLD AEDTGMKP*DSA/GPPGPARGL CGRGGLSPACMGLRP/PSPPA QSPSTALTS\TPSPFHPPRKKW SPPSAPAPSAPSPAPASLTSPSPAP PAPSPAPTAPAP

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14265	44633	A	14348	367	1174	WVRGQPSQSQDLLACSTPTS* WPPGRAPPPPLP/PPPPLP\PTP ASPPLLHPPRRAPPPVP\SFTP ASPPDPVPRPTKALTGLP/LCP LPCMGR/PFVPYLGGLLPCLGP DFSSL**SPGGWDRPVRLGISQ IPE\PLTMGL*MQ*IPP*PRFQG HYAPLPPLQTLCSVKTPGRNPR GLPMHKILQPQNPSQPPCELPQ AHCPTTPPKQCP\AAFSILPVT FADKDPGAAPEGTVKAPMPTQ *EL*PLRPREHRVLSGPTAGQT
14266	44634	A	14349	332	988	RRAGTPASWGHNGARAKTPSR ACACLGLYPIHQPTARRAPAAR SHGPGPPALPRKGAAGHGRSVS HHPLRPCSRSSCLAWPCLHHPQ PLHCHPHRHWPKWHPHPLAPH PLLGLHPRSRPQTTPWTSCGPSR RLPTPSGSWPAPFDRDWPN*AR PSALCCPFCQEPQLTPCLHLCPH PHPHRHLPGLSCPHRPPRWRSR QSPCPWWLLWWTGQWWQPGE
14267	44635	A	14350	190	718	FVLQLPPAPKSGLGRWGSPPPG QFSSSQRTGTVRGRCAEPRG SLPHPT*GNNK*HGNWMGLGS QGL\GRQPGEDKH CYQR/IGVG GAHLLRPPHQIRSLTSTGSGCS HPWSRELGCSDGQRASAPLA LRQAWGEGLAGRNHTIVPFHG DISIAPRLPCRETLFSALCGGES
14268	44636	A	14351	1	486	MKGEVSCKQH QDALQQVLWA MLQDADKQVRRAPGPVENENH CDFVKLREMLICTNMEDLREQT HTRHYEL YRRCKLEEMGFTDV GPENKPVRLVLLFKSLSDSKRVK YDEEWIRLPVE/MKY/MLERKV TQKQP*VPLV FVSWRSR*ESLR REEENQQCHVLEL



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14269	44637	A	14352	1	2380	MMWSVLLQPVVLAVERQGE ALEFLIGVPESDGENGTKLENT LQDIIQEDFPNLAHQAHVQIQEI QRTQPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKGRVTLK GKPIRLTADLSAETLQARRDRG PIFNILKEKNFQPRISYPAKLSFT SEGEIKYFTDKQMLRDFVTTRP ALKELLKEALNMERNNRNFFG VTF AFFVGGQSLGKALQETSIPF LREEDLEKTSILETGNGDWEAT RGLPEECAGMRERDCQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDN SIDS WKNAGR VFKDSD KFDANDPILKDQTQEWGSATF TSDGKIRLFYTDYSGKH YGKQS LTTAQVNVSKSDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGH KYLGLIPTYDISSNIYLISKSLW QANFRLNSALAQSPAITNFQFR GHSLKTLDLLTMKNLDSKVNII PVIKADTVSKTELHKFKIKFM SELV SNGVQIYQFPTDDDTIAK VNAAMNGQLPFAVVGSMDEIK VGNK MVKARQYPWGVVQVEN ENHCD FVKLREMFICTNMEDL REQTHTRHYEL YR\RLQLEEMG FTD\ VAPKNKPASVQETYEAKR HEFHGERQRKEEEMKQMFVQR
14270	44638	A	14353	105	328	
14271	44639	A	14354	107	676	IRPDSLPSASPAQDFYAASSNTF PA/DRWSALTKIYEDQTSNHIPL SQ/TLIQSKALTLFNSVKA EKDE EAAEEKFEVTRVVHIRGLIDGV VEADIVEALQEFGLISYVMVMS KKRQALVEFEDVLEACNAVNY TADNQIHIAGHPAFVNYSTSQKI SRPGNSDDPEREQCASLYHPEP HLFDHHGCSLHYR
14272	44640	A	14355	221	648	LDWLRRVVGIPSLRWTCATLV GTRRAARHRCVNVWECGGLKE ITY*SVEGLCRA/EKPKPLALLE ETCKLPERQVVNAKEKFLEEVIK SATPVNT*MIRKRNCIITDMEK V*AVWIEDQTSNHLPLSQSLIES RALTLFNYVMA
14273	44641	A	14356	122	317	

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14274	44642	A	14357	338	489	WLGQN*RHGKQPGPGVGHVGT TVWS*PHSPACWAPAPQGPA TGEEGCHF
14275	44643	A	14358	1	459	RPVWRNSQPPTAAYRWASGSR MWSTSFSRWNKTPSGKACSSS DKGPPMAQVPIQQRNVPPPTK/ QPLVLCHGEAPDFSRPPQHRPS LQKHPSTGG/PSHSPLPTSAPSSR AGLPPLAMTDLTSGWRLWTPI QPFRLPPGSCREGTILLCSVMD
14276	44644	A	14359	609	2077	GLKAQPSSSRGHSRGPACAAA PASRVHLPVIFCPEPNSSPCPHC TGGWGGRGQ/PACAGNPTASSP CQIECPALRSCLHALMDLGSPQ\ LRGAPRTGVDPRLHLLPQPAL SSPPVLLRGPLLRGTCPLAARQ GQSPAPGLLGHPGSHRGRLLPP AQGGHRLPQPPGPGRRHRAPQP DPRRPGLRAAAASGPGLAAWG AVRAAERP GSGGLPGGAGPHH ARAQGPRAAPPAAAAAGVAP AGGGAVPGGHPHRPGGEAALP AHGLPAPAAERTAPR/QPCPAC GLIARSDVHHPPVLP/LSGPAP APGRLVGQLGVRGAPSSPVPH ALHFPRAQP/PPGKGITTTSTQ TQ PAGSPSPCMPPAATPGARHPP GSA\GHRAGV*GHTGPCDPHGP GHHGHAQLL*/DQAAVGVRGP GPWALSGMSQPPT/LPTAGHPA PACGVRAFQDGT RPPRAKPAL/ LSDKGPPMAQVPIQQRNVPPPT KHPCPGPQSSTWMRQ

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14277	44645	A	14363	47	1250	EPRPSRSSGGPQLGQGLPRPMK KIPGSSAKTAGPLATRPEVPRAP *SAGRQPWFQRPWGKRKGRKT *NHGSPGVKP/TPGPLNKDKGE KEERPRQQDPQRKALLHMFSG KPPEKPLPNGKGSTESSDYLR SVTPGPWSFSPQVASGMPMPVH TTKKPA*APPQVL/EPKERQTGA AADMPQPAVRHQGREPLL VVK PTHSRPEGGCREVPQAA/SQNPR PAPGLQTPGTRQTS/SVTPQPCP PAATHSLGLGSNLSFGPGAKRP AQAPIQACLNFPKKPRLGPFQIP ESAIQGGELGAPENLQPPPAAT ELGPSTSPQMGRRTPAQVPSVD RQPPHSRPCLPTAQAQCTMSHHS AAGHDG/DPASQSALPETGKRT LELQPPGGPLISLS*EAGSLSRSE PSCVREV
14278	44646	A	14364	23	714	EAP EIPRQNRRMTMKERP VWL PHK*IHPNVAKWSRVPVQVQK NPQFQE\PTPEFIPVPGTSPEAAG FWH*GAHDSPGTRDRSEVEPGR GHPHLGPRDSAAADPGEHSPCD CP*ACPEVRRWPA\APVQIQYIIP SVDDFSLEFHAQDGDISDMRRE NVPFSPAEEGKAAPLYQQPLMI PQANHMAGISPS/SPTAAEFQHR DVHHRGPGTRDRTH TETGRVC PHPVPTDSPAL

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14279	44647	A	14365	3	1869	ITTVAPSRPASSDCESDGS*EQD AGPGSRMGPEK*AGPRPTRRVG RWSQTHSQTDDTSGAVVPEYP SDR*YAGGRGPG/PGGPTVHP* KRRS*NPQETKMMARRDPKSW AKRLSPV*PRLAALLTSASPSCP LEPRVLPFRVPPSHGLCEGTSYP NSPGT*RPPCRSSAKTAGPLATR PEVPGAP*SAGRQPFQRPWG KRKG\GKPETMEAPG*SQPGAL EQG*GREGRETKATRPAAEEGSP PHVFRETSREAAAEWKRIHGVF *SSEGHGP*FPFSFPSAGGNRGT PLSCLLGVRDSTILPGCKRANA GPHNQ*EAARGPCPR*SISAAE MSGRGSVLASLSPLRKASLSSSS SLGPKERQTGAAA/AHPSACSQ APGPRASPRGEADTQPPRG*LP RSSPGCLQNPRPAPGRQTPGTR QTSCGDL/SSPARQPPHTAWA* APISASGQEPRDLP\SSDSGLPEL PQETETGSLPDPRKRHPGR*AG GPGKSPTSASRNRTWTKYVAP DGQEDTGPQAQRPAASAQQT LPAYCPGLHHVPSLSGQP*WGP ASQS/GSSGDWKTDA GAPASW RPPHFTLLRSREPSSRLALMCQR SLRLPVFVSHRASSMRTFRFPPP QRTAILTWS
14280	44648	B	14366	1	1519	
14281	44649	A	14367	312	1326	TTKTGQDKDRLEEFSMQQLSGS KRKMSTQPRTEL\PPNRHTTTTS TTPATNTTCTATVPPQPQYSYH DINVYSLAGLAPHITLNPTAHP QLKQCVRQAIERAVQELVHPV VDRSIKIAMTTCEQIVRKDFAL DSEESRMRIAHHMMRNLTAG MAMITCREPLLSISTNLKNSF ASALR/PDGSSAIQL*SND*SCS WRPKLYDAFWDLSSLRV**PSR PEGEGRVSSEGMGESLPFSSSW PRQYQSFLCICWTDAPARNTED R*SHNKVLSSVY*NVC*NQLPC SG*AAQSCCQSHHDPSQVLSQ PGCLCSTHCTARETLRGGHQHC HKD*SAEQGL

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14282	44650	A	14368	2	1120	PEPEPGARGGEQLNEDFEG*VA VPTCLHCPALSRTQSRAIQALT VRRGEATIRPPPCDDTKGGHRF LNELIKVVSPKVGAPSPSSDLPC RMWGEERGWTVGLPEEVKIAE AYQMLKKQGEAHRGWGATRA CLPLPHHERPKNVIFEDEEKSK VRLQGGTYGDSEPRWGSVGS KEMVQE/DSGRAQSTGRRRDG GIELGH\NVKLLTEMVMSHSQG GAAAGSSEDLMKVHLPPCLPHS LTPQPTRTLRMRPTLFRASDT EDNDEALGEPRAGAEVRSPPLP PPPAPVRGEEVNGDATAGSIPG EEVAGELGGHPSGWRGTESYP AMPTRPGEQASPEQPSASVSL DDELMSLGEEGARPGGGRAQQ
14283	44651	A	14369	1	432	GTRQEVTAGVEPAREWQRRLM EVQWGLERAPYCIQHAPR*RRS PARPGTQSCGLGACWIQ*GALS SPHCTISRRCHSLAGSTPAVTS CLV
14284	44652	A	14370	16	471	
14285	44653	B	14371	66	206	
14286	44654	B	14372	234	390	
14287	44655	B	14373	207	427	
14288	44656	A	14374	2	572	FLLERAPYGVGFSLPLGLWLGS RAGVGRHHDKRVGLGRAPTWS LEGAVSSM/TPRPQLCVP/WPC WGPSSPGG*QQLGQLSCSYSLV DR*VALLWFWMLVGSPLVKGH CPTPWSRFVDFSVPLATPPGIVY WGLFAVFLFSHLLPARPGEQMS ACCRHLHAPSSPLLTLDSLIVY SCNSQGKLVRFPPGD
14289	44657	A	14375	175	499	KQNKSMGRKSQGFVASFGNHL YCTASCGMPASSTSTQTWPRVL PLHSQ/ESSHGGCSWRGRR*GP RPRPHKTPVPMVMDSTARNRA RRELVLAWCKSPLATALLVSW DK
14290	44658	A	14376	408	625	VFGEQEVFGYMNKFSSGDF*DF GAPTTLSEHCTQCVVFYPSAP SFPFPPVPKVHCVIPHSLVPTYE WEHTM

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14291	44659	A	14377	1263	1812	AGDAAPEDPAGRGQEDLYDEE LPGWGLCIPHPACLQPCHA*VT KAG/ARVKVILPS*DTQRTKDIL KAGGG/PSSIHFINSAHGKPAVI VRPRGIWVLNTTPLSGQWGPYI GVYTAATVDMKSLGSGSLGLQ LALPLAASWLGVLTEAARVFG EQVVFGYMNSSFSGDFWDFGA PITRAVYTVPNV
14292	44660	A	14378	1	693	
14293	44661	A	14379	2	1299	WDYV/KRPNLRLIGVTESDGEN GTKLENTLQDIILENFPNLRQA NIQIEIQRT/PQRYSSRRATPRHI IVTFAKVEMNEKMLRAAREKG RVTHKGKPIRLTADLSAETLQA RREWGPIFNILKEKNFQPRISYP AKLSFISEGEIKSFTDKQMLRDF VTTRPALKELLKEALNMERKN RQINETENQQGYPGIELGSAPSG PNPLFCRHLQMSVDGRHLQNSP PQINRIYIFLAPHHTYSKIDHILG SKTLLKKCKRTEHTNYLSDHSA IKLELRIKKLTQNCSTTWKLNH LLNDYWVHNEMKAEMKMFF ETNENKDTTYQNLWDTFKAVY RGKFLALNAHKRKQERSKMDT LTSQLEKEKQEQTHSKASRRQ EITKIKEELKEIETQKTLQEINES KSWFFERINKIDRPLARLTKKK REKNQIDAIGN
14294	44662	A	14380	2	383	
14295	44663	A	14381	1	1536	
14296	44664	A	14382	2	1118	REHLAEGMAVGTASADLNISA CWLRRQQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFQRK EQAAIFAVLQPPLVIPRKTGSGV DLEQTPADLQKRGLTVTRKTN KQKAIASTSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPPKDHNSPAR EQNWTENEFDELTEVGFRRWV ITNSSKLKEHVLQCKETKKLD KRLEELLTIITSLEKNINDLMEL KNTAGELRDAYTSINS*IDQAE RISEIGDQLNEIKCEDKMREKAR MKRNEQSLQEIWDYVKRPNLR LIGVPESDGENGTKLENTLQDI QENFPNLRQANIQIEIQRT/PQ RYSSRRATPRHIIVRFTKV

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14297	44665	A	14383	1	1154	MLPILGSRHPSSLGQARKLDYR PSKSQCLEPGTTPRACLVLYTLV AKLIYNDYFIHYFAPRGLPPME KNVVFVIDISGFMFGTKMKQD HNFSLAREQNWTEFEKDLME VDFRRWVITNSSELKEHVLTC KEANNLEKRLDELLTRITSVEK NINDLMELKNTAGELREAYTSF NSCNDQAEKISEIEDQLNEIKP NLRIGVPESDGENGTKLENTL QDIIQENFSNLAQAN\VQIQEI QRTPOQRY\SSR\ RATPRTH\HVRF TKVGNGREKMFKGQPGGKGR\ VTLKKGKPTLTADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKYFTDKQMLRDF\ VTTRPALQELLKEALNMERNN RYQPLQNHAKM
14298	44666	B	14384	1	1554	
14299	44667	A	14385	1	909	
14300	44668	A	14386	2	207	DIMSCILQNYNRPPVMALAIPIA VKFLHRGNKELCRNMSNYLSL AAITKAD\LLADHTEVIVKSILQ
14301	44669	A	14387	496	1207	PLITGTHDSGSVESQLIKLILTM HQLFRLVLGQKDLRAGDLFS *NNSEIEDSLTEALEQIKIHSSSD YQTNNDQAVVEICITRITTAIR ETESIEKHAKALVGLWDSCLEH NLRPFKDEDTPHAKIASDIMS CILPELQPTPQSMALAIPIAVKF LHRGNKELCRNMSNYLSLAAIT KADLLADHTEVIVKSILQGMVR KLSLGTCTFGRYLKVFSSSIYGL WEARPRVLEAN
14302	44670	A	14388	219	448	VSLELCLKTTGPDGCGQTSQTP PAAAYHHL/PGAGLPCGPRLPA LCCSCPMGARPL*HHKR/DPSRF QEKTHLYLPSSH
14303	44671	A	14389	542	1365	GTEGVMANRSQEGNGGGSWR AKQVVVTVPF*EQSLVIMLWR RGGNT*QRPSEGTSRSHICSFH MSRHCQ*CKCLLKEP/VSAEAR DALDTKTHFPLAMIPSYLLNG NIGELPEGPAGGCAQNPGLWAS /RGPARR*RSQASSPEVRWPPG QCGLRGRPCKKE\PRPHWSPR CASPYRGAGGQRLRRACSAAG RKTPDRRPLPEPTRGPVSQRAV LGKLRAAAGHRIPIGDLGDGLS LGAPPAGRHLHTVPLRREFSP CEDALGIGEQQGKKRVT

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14304	44672	A	14390	3	723	PVLRGGIQEFAYIKALYERKFL VPKPIDYNRHAVDMELINGYPL C*IHHVEDPASVYDEAMELIVE LANHGLIHGDFNEFNILDES HITMIDFPQMDSTSHPNAEWYF DRDVKCIIDFFMKRFSYESELP TFKDIRREDTLDVEVSASGYTK EMQADDELLHPLGPDDKNIETK EGSEFSFSDGEVAEKADEVYGE NESERNCLEESEGCY\SDHLETL NK*RKTVYQKRVLMHGVLK
14305	44673	A	14391	1	1889	MGSKVKEVEDDSQMSDLVRG MNAFSKTGSGGVEQGRGQGG TNGHIKKAKARDRDRRFFKTP QRKVGNDNLQLPLRWTEQHAE THIMNFCSKNYNRNIPGKPRESI DTLNEAACRGRLSKTARKLWS EAQDQRSFQATEMQAFLFSAK RIAAEKKTIIRRRDLCSIWGLL PRPGSQSVPAQIPENLQEQEERA KWLNGRSKFFPQTTSTLGKVT SNKTGVKEPELESRQPNLLKVE MGMNHEIVPGSLIASIASLKH GGCNKVLRELVKHKLIAWERT KTVQGYRLTNAGYDYLAKTL SSRQVVESVG\NQMVGK\ESYI YIVANEEGQQFALKLHRLGRTS FRNLKNKRDYHKHRHNVSWL YLSRLSAMKEFAYMKFRTLEIR DYFYWVKINVLTPCSPKRGSS GEFVPCLLQLLGFSGDCWHSFG LWHITPVSVSMLTLLPSLLVK QKKPTLDSRMGQFDFVVELQL YLCVLEREVIREYPPDGQIFGRY FDRDVKCIKDFFMKRFSYESEL FPTFKDIRREDTLDVEVSASGY TKEMQADDELLHPLGPDDKNIE TKEGSEFSFSDGEVPEKADEVYGE SENESEARNCLEESEGCY\SDHLE TLNK*RKTVYQKRVLMHGVLK



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14306	44674	A	14392	150	1910	STPPGGPSVLM*STEEPAGRS QPLCDDLSTRPLSCLGAGCCLW PAKRISAKEEPWYSSRSKDKKE KNYSSPETTTSGGCHSPGDSQY QELAVALESSSVTINQLNENIES LKQKKQVEHQLEEAKKTNNE IHKAQMEQLETINILTLEKADL KTTYHTKRAARHFEEESKDLA GRLQYSLQRIQELERALCAVST QQQEEDRGHCLSSPDQNFSLFTI QSSSCREAVLHRRLLQQTIKERA LLNAHVTQVTESLKQVQLERD EYAKHIKGERARWQERMWKM SVEARTLKEEKKRDIHRIQELER SLSELKNQMAEPPSLAPPAVTS VVEQLQDEAKHLRQEVEGLEG KLQSQVENNQALSLLSKEQKQ RLQEQEEMLRQEQAQRVREQE RLCEQNERLREQQKMLQEQQE RLRKQEQLRKQEEERLRKEEER L/TKAGKEAVGPGGEAVEEGGE ATKAGGEARALPEPQARQAAG RATVQLRGSEQREKERTAVGA ASKGAAGEARRGEGDAVHGHL SAADL*EGGAAQAVTAADPVR GPAAAAGSLGQSGAPRSCQPPE PTARDPAKPRGSPWRRRWRTT
14307	44675	B	14393	463	3755	
14308	44676	B	14394	175	1835	
14309	44677	A	14395	102	465	RAYCWAYIRLSCLTVILIAWCS QESALSEEEEDTTRPLETVTFKD VAVDLTQEEWEQMKAQRNL YRDVMLENYSNLVTVGCQVTK PDV\SSWSKKRSPG*WRKKCL GGTVQNPEEERTAV
14310	44678	A	14396	1	330	
14311	44679	A	14397	1	531	MLLNIPQHTRQSPRAKNYLAQ NVNSVKAWCSQESALSEEEED TTRPLVRLKHLFVSCIILQCSYV LLPLTPEYQLNKFLYVVITMPN FDDFKLISIMFLQETVTFKDVA VDLTQEEWEQMKAQRNL YRDVMLENYSNLVTVGCQVTKPD V\SSWSKKRSPG*WRKKCLGG

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14312	44680	A	14398	1	539	MPTTTTREM TQNSSETIKNKNG KKQRKQRKNSKKNRRKQKDE DKTRRQNKRRHHKKNDINPEEE RTAVRLKDGGAPAPQAVQEHD AGICSASGGAQETYILVEGKGE ASTSPGQSKGSREGGVGANETC SKKLYRDVMLENYSNLVT/VG CQVTKPDVYSSWSKKRSPG*W RKKFWEALSR
14313	44681	A	14399	322	1227	FDLKMSKCRKTP LQQ LASPASF SPDILADIFELFAKNFSYW KPL NNEWQLPDPSEIFTC DHTEFNA FPWI*RTP*NEVKKPTGVIRTW DEWHEHTCFH**SGE/ISFPHGR KSVNAELWTQAWCKFHEILCS FPLIPQEA FQNGK LNSLHLCEAP GAFIASLNHYLKSHRFPCHWSW VANTLNPYHEANDDLMMIMD DRLIANTLHWWYFGPDNTGDI MTLKFLTGLQNFISSMGTVHLV TANGSFDCQ*NPAGDQRMVKG HCYFPSWNWLHLSKHTQCGNE FIFMTKKKQSLTAKSLPDTFS
14314	44682	A	14400	3	183	KRKEITNSLDAAASRGTVPAAL AGVQYLEPRAGAAGRLGGAG WGRVPRPGSS/SSL SLVGR*GW CPVLRTQGRCCRPPGGCWVGA RPAWELLSL SLVGR
14315	44683	A	14401	21	399	IWNSAPTASRRPWSLAPGSPRS TWCVASTPPCAPGKAREPRDRS EVPPATAPAVLQSHWPCPRSSR SGSAGNCVGP PHSWAPGHSQH LTPGPGHGGPRGP/CWHLLMQT AWPALTPPGAMPGEAEGQ
14316	44684	A	14402	59	478	RCSQPWHCPAALAGVQYLEPR AGAAGRLGGAGWGRVPRPREL LSL SLVGR*GWRPQE QDQLFPH LRRPVGTRSESTWGNRAGAAT W/RAATPSPWRT*NGTKSKQW TASGLWQKGDGDW*GSGKPPL PLSVPAGQRLVPVC
14317	44685	A	14403	1150	1319	PRRLPTACTP*RS/CSRYWMVP KSPRMTMMMWT KLARMGAQ W*PRKSNACLSRAASS
14318	44686	A	14404	34	304	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPRRAPPPAPRRVPST TQ/EARRSAASLLSPARPRAHRD GTNNSRRATLRAVTLTARVRG F

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14319	44687	A	14405	1	360	SSLSYLPAGQGSGPAARHA*A SHPLHGLLCGPSPNEHRPLLQ GAQSH*PPKG*GVRAHGVGLA GRSTCSP/ECGIH*VKPAGLLSFL GPRCFYEL*QSPRRSAAASLLSP ARSRAHRE
14320	44688	B	14406	80	1166	
14321	44689	C	14407	1	543	
14322	44690	B	14408	1	930	
14323	44691	B	14409	1	1473	
14324	44692	A	14410	388	606	
14325	44693	A	14411	1	798	
14326	44694	A	14412	687	832	
14327	44695	B	14413	1	1218	
14328	44696	B	14414	1	642	
14329	44697	B	14415	1	807	
14330	44698	A	14416	554	724	
14331	44699	A	14417	216	494	
14332	44700	A	14418	1	3408	
14333	44701	A	14419	330	858	VPSLDGQRGLELDTECRLVYLQ SLS*T*RFSTSSPEQLDTECRLV HSQTLCT*QGADWCYKP*VGL QVELPASPAPWLAFLSPWVVN GTGRHGAGGGARRGGSGCTGA HGVGGRLRHGRLQVSPAPWE GSCSLPSPIGPPFKRAHSVLQKG SSTLMVGTCASSPKVVPFHLLS
14334	44702	B	14420	182	1513	
14335	44703	B	14421	1	1608	
14336	44704	C	14422	1	1830	
14337	44705	A	14423	167	433	LPSRGAGLGTCSPCLSLPPTPW APVRSEPPRRAPPP/GSTVPSPIN HPRAEECERMARDWQAAPPAA PVRDPLGEASWAPEFFGSMPLPL
14338	44706	B	14424	32	352	
14339	44707	B	14425	103	451	
14340	44708	A	14426	158	921	LPSRWAGLGTCSPCLSLPPTP WAPVRPEPPRRAPPSAPRRVPV\ RPPKG*GVPAHGAGLAGSSTCS PDICRVCRSEGTPKPLYHPCVC TGSIKFIHQEC\YSPDMPSRLPIQ DIFAGLVTSIGTAIRYWFHYTLV AFAWLGVVPLTAWHQLDLGS TLNPGCSHLVILKLTSTKTLFP NKATFILVVLSQDKTLMEDPR MEDKWKEDRFSPFNSEALEITL GERHRPQTASVIPWFCSSRHVL NLGKINFEVD

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14341	44709	A	14427	242	515	IQSVHWCIIHKP*ARHRVLIGVFT IPELDIKVLHVPTRLRNPAGFTH WILHRDCRCSCMPVLRHAPALL SPWVVNGTGRSRAGDSTHRGG SG
14342	44710	A	14428	759	988	TWPRKPLFPPRPLGL*WEGMLQ RSLTCPGDIFPIILVISIWLVTY ANFGSWL*FLPRKWVFPFFIPVP NKFLIFI
14343	44711	A	14429	130	788	VLQLIKAVWTPRTQEPSWLPPV NPARELQVELPASPAPCARTPQ LLGGRWDWAPWSRGWRSFGE ARAAQKPMEGVGGSGMAGCR SRALPHGKAAKARRAIEHSTGG LALLGDPVHSPQPLARVLSPSLP RASRAGWLLRVRGPPSPRPPGT PAGRQAPHAAPVPARASPSTPP/ CRAERVGSSPGQPRKGLPQCRG EAEGLLKCHQSGSPGRGEELW HSR
14344	44712	A	14430	108	1686	ANRCPLPHPGTGAGRCLGASA GRAEEAGV*GPLHEGLGYRPA GLFLRADTGHRTPGWGGGGGG AGGRGGAAPGPGVGATRRFAG RRGCARHGAAPVAAVRICERL VLNVAGLRFETRARTLGRFPDT LLGDPARRGRFYDDARREYFFD RHRPSFDAVLYYYQSGGRLRRP AHVPLDVFLLEVAFYGLGAAA LARLREDEGCPVPPERPLPRRAF ARQLWLLFEFPESQAARVLAV VSVLVILVSIIVFCLETLPDFRD DRDGTGLAAAAAAGPFPAPLN GSSQMPGNPPRLPFNDPFFVVE TLCICWFSFELLVRLVCPSKAI FFKNVMNLIDFVAILPYFVALG TELARQRGVGGQAMSLAILRVI RLVRVFRIFKLSRHSKGLQILGQ TLRASMRELGLLIFFLFIGVVLF SSAVYFAEVDREVDSHFTSIPESF WWAVVTMTTVGYGDMAPVT VGGKIVGSLCAIAGVLTISLPVP VIVSNFSYFYHRETEGEEAGMF SHVDMQPCGPLEGKANGGLVD
14345	44713	A	14431	1	427	
14346	44714	B	14432	8	323	

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14347	44715	A	14433	20	1050	FNLVYMSHVSDEGALSESASAT AASWPPHGFLQHFPGRPQVPI CLYLLGQKTG*HMAPLLRQVT GSPIPPKTTPGRGIRNMKRNEKR RYKTLMDGWELHQELSLGRT SSLPPYKGGPWSPGFQKVSKG ANPVEIKRGVMLAVDAVIAEL KKQSKPVTKEEIAQVATISAN GDKEIGNIISDAMKKCGRKGIT KISSVQSIVTALEIANAYCKPLV IIAGDIDGEALTTLILNRLKVGL QVVAVKAPGFGDNRKNQLKDT VIATGGEVGEVTVIKDYAMLL KGKGNKSQIEKCVQEIIDQSDV TTSEYEKEKLS\EKLS\SDGVAVL KSHPWSFCTKIYPLT
14348	44716	A	14434	3	764	TTATVLARSIAKEGFEEKSKGA NPVEIRRGVMLAVDAVIAELKK QSKPVTTPKEEIAQVATISANGD KEIGNIISDAMKKVGRKGVITV KDGKTLNDELEIIEGMMKFDRA YISHPFINTSKGQKCGISRDAYV LLSEKKIS\SIQSIVPA\LEIAHAH RKPLVIAEDVDGEALSTLVLN RLKVGLQVVAVKA\PGFGDNR KNQLKDMAIATGGAVFGEEGL TLNLEDVQPHDLGKVGEVIVTK DDAMLLKGKGDK
14349	44717	A	14435	1	3288	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVVC
14350	44718	A	14436	2	422	

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14351	44719	A	14437	529	2484	WGINIIKKNKKAAPRAFGVRLE ECQPATENQRWQDLNVISSLLK SFFRKLPEPLFTDEELPLAPSFCE EEENGGRGGGPSRPRYLEPMDT IFVKNVKEDGPAHRAGLRTGD RLVKVNGESVIGKTYSQVIALI QNSDDTLELSIMPKDEDILQLPA ERESGGEASEPPRVVRPEPSTRA LEPPAEDRGDEVVLRQKPPTGR KVQLTPARQMNLGFGDESPEPE ASGRGERLGRKVAPLATTEDSL ASIPFIDICVRPCAWLHALLDW MAQQRVLDMQGQSIGMGVSW DRELEEKGSEKGYDEPTSPSIDL QAKHVPASAVVSSAMNSAPVL GTSPSSPTFTFTLGRHYSQDCST SAHLNIFAGIFDISNDHLQVSTL ESNFTRIHLTHYTGGNFPAWLA WDAVPFSSDLLNLGVHVLETG AGTPFLGSACSSDGIASQMNTA GLPQIRDLPGHYYETLKFVGHV LKTIAHSEKNKMEPRNLALV FGPTLVRTSEDNMTDMVTPHA *PLTRSWETLIQALQTGSSVTKR YKGKENPCGLTRSLRQCPTLST FLPNIWQDSAPWRPGVSGPVG LKDSTTCSSAKSKGSWAPKKEP YAREMLAISFISAVKPQAQAAA GDAGAGQQHRRRLGAGGAQS LGRGPQRRGHQERS
14352	44720	B	14438	1	1473	
14353	44721	A	14439	5	694	VPDKWGWCLFMSRYLETAIRT AACAAAPRYLNPGRCSAARGPS SQSPRPWWSGHKKRTASPGWG GQSAASPMPPSRSWPASVGGPE FRLSETPSRPFTLSGMK*GWQV HSWAPALFCSVMSFSPDTCCLC K*AHSQPCSPSPSTVILLRETSSN WDWQPEDLGAPKASASPPSTT RITRLRSSELQLRRLNPDSCHR GFCFSFRCLLTPEHVLPKTVLRI QPGCKVA
14354	44722	A	14440	303	757	MAWKVSLRGRKVAGRAPSQRL WASPPSSGQSVKSLLLPPARRL CPGPGVPARCHRRI*GLGPGRG WRGEWRRDTNPWEPPQPRSPS/ G/PNCAWSDGCPRGAPRRPRAL *AGAARRAAPARI*VPWRGSAG GCSNRRLQVPAHE*TPTPFIRYL

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14355	44723	A	14441	1	534	RHEDHSEPTFLISPSLLCFLLPSP PPLPRLTP\PAALLVPAVQRME PVLFLPAPGAAACRVWHPALPP PRQAAVSSSRPCY\PCVARSAPA GRVRAAGVPAPPPSSPRLGRV GGRSRSPNVVFRVRGAAPG/PG L*ISPWTP/PLNEAS*RQRGCPAS FAVYGGQEWPPQWPGPPRGP
14356	44724	B	14442	157	2143	
14357	44725	A	14443	258	4089	QLITCLSRPETGGKFEVDTRP VCPPSRARAARASAAVAAAA TLTPPTMDSFDLALLQEWDL LCVYEPDRNALRRKERERRNQ ETQQDDGTFNSSYSLFSEPKT NKGDELSNRIQNTLGNYDEMK DFLTDRTNQSHLVGVPKGPVPQ TPVKNIDEHFVADSRAQNPSSI CSTTTSTPAAPVQVQSKRGTMG WQKAGHPPSDGQQRATQQGSL RTLLGDGVGRQQ/HSGQTSVQC GGGPSDPGEATCHGGQ
14358	44726	B	14444	1	1326	
14359	44727	A	14445	453	710	SQHFGKPRQVDHLRPGV*DQP GQHGETPSLLKIQKLTGRGGAC LW/QSQLLRRLRQENRLNLGGG GCSEPGSCHCPPAWATERDSVS
14360	44728	B	14446	32	290	
14361	44729	A	14447	244	426	
14362	44730	A	14448	69	221	QWRFCGIERGERWGKD*EIGW LPCLCGKK*IWETFILFCTKKN SSALGSC
14363	44731	A	14449	27	220	AVILTAKICSFTPEPSKTTSPPGG TNNSRRATLRAVTLTVKVCST P*GSAASFLKSVRPRTHQ
14364	44732	A	14450	115	732	EPETRIDPLSWNSSQLPVAALH LPGMSSVGAGQAICNLCLGDL VSPSSLPALERTGPPPWNRGPK GRGRLPSL/TVSQPSLVIPPGTG KSEVNADRSRPPAYCSNLGRYS GPGPPSLVIPPGTGKSEVNADRS GPPAYCSNHFPSALP**RSSMRS LSLQQTSAWTCRHFHTSLKSR WRFPNLNSCLLCTCRPNTTWKP CLGACTL
14365	44733	A	14451	528	875	EHGYFQGTGQKCKSGKPPG GTLKTLVTLREPGRQLQSP*TS WVSERLP*YP*GDTGENCPKLS FHLRNLGPS*AG*RERPPQGG YLPPQAYRLMQGSAFWPLFGY APSPQR

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14366	44734	A	14452	2788	3414	ACFSYIAFWRINTTSTANLSKES LTSTTSRSWVINVNIVIFCTDWL FYKWLLKNFPIYFYMIFPFNQIT FHSMGSCAARASPTSTTPCSTA PSPIDHPRAEE\SSTRRVGTGRQL HLQPAKICSFTPEPSKTTSPGG TNNS\SALP*EL*HSPRRAASL QFRTR*YPYRYQSQGPQSHF*L PLPLPSSIHDHF*LFHLQHTFQS HALLP
14367	44735	A	14453	662	1338	VLQLIKAVWTQRPLGGRWDW APWSRRWCSSGLRPHRNQWS GWEAQAWGLQVPEPCPAGRQL RPGEKSSTAPVCTSCCRTRSTA GPTGCPSTRDPTLSASPS*TST TSLATATASASMWAGSCTSIST RGSASLVHQALTWPGSGPASPR KR\TGSHPVA*AGVRWRAHRS QPQTPGLK*SSHFSPLSGWNYR HSNHPISQSFPHLSPLSIPQNH CHHGPFMS
14368	44736	A	14454	3	415	DFLFSEILPASQSASAILPALPA SHRCPCLDVPLPPEVPGPARLP VAAASVWRPVQHLSLLGRWA GPT*DRTESRETNAEVEADLPP LYAHGRLEPTAGPSGASAVLST SSEYCPGPHPKMGHRRVTSCLS TCQS
14369	44737	A	14455	659	818	
14370	44738	A	14456	2	710	
14371	44739	A	14457	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
14372	44740	B	14458	1	1338	
14373	44741	A	14459	83	426	
14374	44742	A	14460	93	345	APALCLQILLDCSVNRNTRSF RPREVGIIQYKKGGAAGKGG TGNA PGFLLFSKDS*KDPTPLPP PLLL*GQRDH*IQLHQE
14375	44743	A	14461	1	1302	
14376	44744	A	14462	1	1174	
14377	44745	A	14463	274	1428	
14378	44746	A	14464	411	627	HCLSHFQNTGPRGDVDFQQL FPVLMADIRKEERSHLRCSR TWTILDKS*IQGSRLSSKEQGW GWGTSRK
14379	44747	B	14465	1	1553	
14380	44748	A	14466	226	449	SLQPDI*CSGLRGSLLL*PKSD
14381	44749	B	14467	1	2061	
14382	44750	B	14468	10	1099	



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14383	44751	A	14469	34	406	GGGFISLDTGSHHKSHPGGS*H ALGWVRPHTLNSPPSQPGNC GNPAWEC*GPHG/APSRWSCST PCRSPHPKVPVAVRVAGPAGGCT PYRT/PTRRTPR*RPGPCAACDR PLHPHCGPRGPGAYPR
14384	44752	A	14470	623	1671	VLRSVSSWLPTSMAMTVLAPM LRAMSAGRLLM*PPSMSRCPSL GSHSGGR*PDS/GHAGAHVPPQ GAIFVDSHG*GGDICGHVEVRQ P/QGPQSAYPGRPDGCCG*RQT Q*TWR*LGT*GPTQVPAPKSCS WPTPGPAASCGWRCAPPRTTLR *KSQWTCRPPGPRGPPPLMPL VLRCASSPWPRPRLAQQQWCS P*APSPSGRSRCAGPRAWRKPS RRAHAAWQGC GAKRGGADSA GAGAPSTSCAYLATPRCAWGP HPPLGGAGLAA*GRAQPCSPAS APAGRG*APGPPGPQ*GCSR PVAGSARSASARRPSGRVRYGV HPPAGPATLTAGTLGCYPVRRP PGVPG
14385	44753	A	14471	32	972	QSGTFSTKNEGRTRD VYDGR GPRVGRCGTCVYVRYVHDRPH APHERARRNDGNTQRTGNAR PGTAMPTATTDQPKGRSTRHK ETKRGR TARN GKQNNPRK/RP RKDKRKQGSAGEGERGAGGKE KGQPRDTEAKGDRRTDFPPPNG P*GQSKRGANIGGWFP PRLGT PNPPLPGPQSAQVSGP*TPQMW MPTGTGCCGGSQSGSPPPWCV SP*PVAEALFHSST/PAPRHPSPP SSSPKHSHQPSTPPP*ISLGQGPC RPPKRRPAPDQPQVPRCPEPSC AYLATPRPTMRMQSACRGSAR SRASARRPSG
14386	44754	A	14472	1	3128	
14387	44755	B	14473	239	5474	
14388	44756	A	14474	542	781	PASIMTGSISHITILTVNRLN ASIKRHRLTDWQIR/IKSQDLSV CYIQETHFTCKDPHKLKIKGWR KIYQVN*KQKKK

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14389	44757	A	14475	724	1340	QLTLQGRRVAPR*PSRVALEQE/ CGYNALLRYEGFENDSGLDFW CNICGSDIHPVGWCAASGKPLV PPRTIQHKYTNWKAFLVKRLTG AKTLPPDFSQKVSESMQYPFKP CMRVEVVDKRHLCTRVAVVE SVIGGRLRLVYEESDRTDDFW CHMHSPLIHIGWSRSIGHRFK RSDITKKQDGHFDTPPHLFAKV RSFYKNPHL
14390	44758	A	14476	1822	2226	KRLFTNRTRITPFVAINSHHHHH HHITIINTIITTTSTINSHHHHHY YHHHHHHHHHHQHHTTTTNTTT TNTTTTNNNTTITITITTTNTT TTSTINSHHHHHNQCHHHHH HHHH/HHHHHQYHHHHH*HYQ \HHHHHHYHHHHHHHHHHQ/ HHHHHQHHHNQHHHHQQQH DHHHHYHHHQHHHHQHYQ\H HHHHHNQCHHHHHHHHHQH HHDPPHHQH*HSHQH
14391	44759	A	14477	232	625	EGCCCIAMVQKYQSPVRVYK YPFELIMALRK\RYPRCCVTC* TGGAQQVGFRFLDPLSLCTP* CLWRTSSSNF*RKAAGCSGSR QSHHFGILPQPTAPKPWSSPLHI TKPQTLGQRDPGPRTRKRSK
14392	44760	A	14478	1	808	MPKTTACNVHTVTWASCENAD SDSTGLRHHDSCEDPASGRSD LCLVPHPTRPAVRGGRPAGGRC PAVPAEGPWRHLQQAQEGKKR LAGGLERLLENPVRRALPQGA QGHRAEPTEARPHPAEIIRAG AAAERAERLESQPVGASAAAA SAASARIPYLVAVPAAGPPRRH CRRHRRGPGTSSGPRTALIRPAT ARARAGIVSEPRTAPGATRARP WRQGSHNPVAPSAP*LLRGPSIP WQIRPMPCTSHQTCSERRPSG RWQMPGSACRRSLETSSAGAG RAQEAGGRLGETSGESG/RAGL YLKELRAIVLNQQRLVRTQRQS IDELERRLNELSA*NRSLWEHP QLPQAQPPPGLTS*PSPLPALL GTAAAATAGAQEHLQDHGQRS SARPLPAELASFQNEQLLAQ PEPDGGRAHTTQSPHQHPGTL GVKANKEKKGPPGCCAAPGTP LQQESPAPSARES

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14393	44761	A	14479	1	831	MIRYFGDYWTQALLTLIPGDPK HPRGPPVKVGVYGGQGYNSL ALCHNFIWRELNRFSLQLQDVPL VRYIDNIMLIGSIKFLGVQWCG ACRDIPSKDPADPMVLEVSAD RDVWSIWQALIDESQQRPLGF WSKSLPSSADNYSFERQLLAY YWALVETERSTMGHQVTMLPE LPVMNWVLSDPSSHK/ANGLA GWSGTGKKHDKIGDKIEWRR GMWMDLSEWSK/D/VKIFVSHV SAHQRVTSAAEEFNQVDRMT RSMDDTQPLYPTTPVIAQWAHE
14394	44762	B	14480	56	3476	
14395	44763	A	14481	3	591	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQK WTA VALQPLSGTSLQDSSEKSSQW
14396	44764	A	14482	1	1275	MEKNDIDQSRRRKVVEMNENV QLVRYGEQASDLKTATKFKSPS EVKHIRFIQAFIGSKLLMRPW TTVTQKILSLKSALIESLIPC RKRAEFVEKQTQAFIMQVSDL QQKVHAQPSQVSTVKVKALIG KEWDPATWNGDVWEGPDEAG DTEFVNSDEAFLPEATAFPSPEV GNDQTVWGLLDTGSELMLIPG DPKYRGRPPVKVGAYGGQVIN RGLAQIQLSMDPVGHRTRPVVS SPLPECIIGTDILSSRQNPFIGSLT DITLVHYIDIMLIGSSEQEVTIT LDLLVQAVAQAALPVGPYDPA DPMELKVSVADRDVWSLWQ APIVTMRPERPIMNWVLSDPSS HKVGCAQQHSIIKWKWYIRDW ARSGPEGTNHSRRVCS/LPQVQ APSAR*ATARRGGQAASGCCLF WSCTCFSNFDV
14397	44765	A	14483	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLREWFG*NHDASCP*TLD SKSFSFETRGTGSPCSSLQTAYC GTLWIVQGV
14398	44766	A	14484	2710	3060	
14399	44767	A	14485	3	227	
14400	44768	A	14486	3	266	
14401	44769	A	14487	2	564	

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14402	44770	A	14488	2	503	FFFFLPIGFWRQHIPRLSVLLQHI Y*VT*NAASFEWGPEQEKAL*Q VQAVVQVALPLGPYDPADPML LEVSVADKDAGCTRLAQAPIGE SQWRS LGFRSKALRSSAENYSS FERQLLACYWALVETECLETLG HQVTI*PELPIMNWVLSDPSSHK VGHEQQHSIIKWK
14403	44771	A	14489	2	469	
14404	44772	A	14490	1	633	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGQ DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
14405	44773	A	14491	1	518	MTVDYCKLNQVVIPIAAAVSD VVSLLLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLPQWYINSPALCHNL IRRDLCFSLPLDITLVHYIDDI MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKHEWKTGDKGIRGRG
14406	44774	C	14492	33	932	
14407	44775	B	14493	27	2457	

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14408	44776	A	14494	332	2158	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQGGQYTF TVLPQWYINSPALCHNLIRDL DCFSPLDITLVHYIDDIMLIG\P RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCCHG GRDGGYAWAQQCRLPLTKAD LNTATAKRPICQQQRPTLSPQY GTIPQGDQPATWWWVDYMG LPSWKGQRFVLTGIDTYSYG FYGF AYPACNASAKTAICGLTECLIH HHDIPHSIASDQGFHMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQLQCQLGD NTWQGWGKVLQKVYALNQH PIYGTVSPIAKIHRSRNQLEVA PLTITPRDPLAKFLLPFPATLQS AGLEVLVPEEGLPFGDTMIPL NWKLRLPPRHFGLLPLNQQA KKGVTVLAVTDLDYKDEITL LLHNGGKEEYAWNTGDPLGLL LILPCPMIKVNGKLQQLKPEAL VPKGVVFPFGDTTMLSLSWKL RLPSGHVGLLMPLSQQVQKGV
14409	44777	A	14495	1	3187	MAEGKEEQVLSYTDGSRQREN EEDAKAETPDKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWWGDHSGYVRP VPVPRSLNSDISYFGVGGKQAV FFVGQSARMISKPADSQDVHEL VLSKEDFEKKEKNKEAIYSGYI RNRKDDYDNHTGIDLVGTTIATI KGSNEEDTDTPLFIGKVRTLEFP FVNGSAEIMLMPSNQKHKTDE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
14410	44778	A	14496	266	467	
14411	44779	B	14497	152	1245	

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14412	44780	A	14498	1	1445	MLRAAAGGQGLAAAGMGLCA RPAGGSQ LPRERMKGNRACLP LPPAVALTKGREKPDAGHQGR STQMMRESERGPCTHWTEERP GRQLKILLQKQMRQNTLMAFQ VSWDGRNKEIGRTFPHATAPHT QQLIFAMKIKRTGVTVEPWGLF ETGQRIRPIQAAGL*LSSSSTTC VALAPLLTMHVKSLALLSAP/Q MGALSTITSITTTTRRQTPAESHF PAARFHLLAPHSP TLPCCPGEP SESAVTVLCFAKGKTAQDAAV\ PTTSLTAAGHLAPRS*SSWSRM PVKVRRAPDSL PETSahalPLT H*SWLPSASWGPASRALPGSEW VLKPVWQ/AITGPVSQITSSPGIP KPGPLQA*GSAHPQALGFSVL QIPLSNSPTSPMTPLPRPKISNS SLPSQ/PPQALFPNRWTNSSSPV HVITSAAQ\PRTPREWPAVSFYR TTATTASLIPHLWAPPQEN*QTS PAQNGSTLPCMSQATFHFPSP
14413	44781	A	14499	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/TGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETHIRVNRLPT*WEKIF AIYP
14414	44782	A	14500	1	346	
14415	44783	A	14501	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKISDLILCKKKIM NRHFSKEDIYA AKKHKMKCSP SLAIREMQIKTTMRYHLTPVRM AIIKKSNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLG IYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP

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14416	44784	A	14502	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLGI DGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHRSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCCSSSLVIREMQIKTTM
14417	44785	A	14503	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHLIYANK LENLEEMDKFLDTYTLPRNLNQE EVESVNRPIGTSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKGRDTTKKGNFRPISLMNI DAKIL

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14418	44786	A	14504	1	2877	MENDFDELREEGFRQSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLSRCDQLEERVSAME DEMNMKGEGKFREKRIKRNE QSLQEIWVYVVRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITISEYYKHLTYN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPIITGAE
14419	44787	A	14505	1	2347	MELKTKARELHDECTSLSSRF QLEERVSVMEDEMNMNLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKEGILPNSFYEPSII LIAKPRDITTKENFRPISLMNI NAKILNKMLANQIQHHKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMISIDAFAF DKIQHFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKEEVKVS FADDMIVYLENPTVSAQNLLKL IGNFSKVSQYKINVQKSQAFY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYQYQNRDIAQ WNRTEPSEIMLHIYNLIFDKPE KNKQWGKDSLFNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEKIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAKKHMKKC SSSLAIREMQIKTTMRYHLTPV RMAIIKSGNNRRIQ/GGIWCD RIL*R*TTCTRVAKIQLS*RR/W KRLQRTLSIPVLDAV*PPMF*AS
14420	44788	B	14506	1	2265	
14421	44789	A	14507	1	2832	
14422	44790	A	14508	1	2109	
14423	44791	A	14509	1	2757	
14424	44792	A	14510	1	2304	



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14425	44793	A	14511	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEIETQKTQKINES RSWFFERINKIDRQLARLIKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLIYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIHNSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLKSFCTAKE TTNRVNRQPTKWEKIFATYSSD
14426	44794	B	14512	1	2337	

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14427	44795	A	14513	1	1544	HINRAKDKNHMIIISIDAEKAFD KIQQHFMFLKTLNKLGDGTYFR KSINVIQHINRAKDKNHMIIISID AEKAFDKIQQHFMFLKTLNKLGI DGTYFRKSIN/DNPAYKQSQRQ KPLIISIDAEKAFDKIQQPFMLK TLNKLDNIIVYLENPIVSAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNSQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTKKWKNIPCSWVG RINIVKMAILRKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA PVAKAILSQKNKAGGITLPDFK LYYKATVTKTAWYQYQNRDI GQWNRTEPSEITPHVYNYLIFD KPEKTKQWGKDSL FNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTEWEKTFATYSSDKG LISRIYNELKLIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSSSLAIREMQIKTTVRYH LTPVRMAIIKKSNN
14428	44796	B	14514	110	2153	
14429	44797	A	14515	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQ
14430	44798	A	14516	3	2820	ENKDTTYQNLWDAFKAVCRG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNIDRPLARLIKKKREK NQIDTIKNDKGDITDPTEIQT REYYKHLIYANKLNLEEMDKF LDYTYLPRLNQEEVESLNRPTG SEIVTIINSLPTKKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKGRDTTK KENFR

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14431	44799	A	14517	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLRARQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNYLIFDKPDKNKQW GKDSL FNK WGWENWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKTLEENLDITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCQMRKNTK TLI
14432	44800	B	14518	1	3192	
14433	44801	A	14519	1	2814	
14434	44802	A	14520	1	3144	MGDFNTPLSTLDRSSRQKVNK DTQELNSTLHHADLDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEITNCLSDHS AIKPELRIKKLTQNRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQEQTTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKR EKNQIDVIKNDK

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14435	44803	A	14521	1	2616	TTYQNLWDAFKAVCRGKFIAL NVHKRKQERSKIDTLTSQLKEL EKQEQTHSKASRRQEITKIRAE KEIETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGDITNPTEIQTIREYYK HLYANKLENLEEMHKFLDTYT LPRLNQEEVESLNRPTGAEIVA IINSLPTKKSPGPDGFTGEFYQR YKEELVPFL/LKLFQSIEKEGIM NIDAKILNKILANRIQQHIKKLI HHDQVGFIQGRQGFNICKSIN VIQHINRAKDKNHMIISIDAeka FDKIQQLFMLKTLNKLGDGT FKIIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLEFNKWCWE NWLAICRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGMDFMSTPKAMAT KDKIDKWDLIKLSFCTAKETT

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14436	44804	A	14522	782	3024	SKTVPTGNSLEPTQNCWLQQW LPQDIEIEKQEQT/HSKASRRQEI TKIGAELEEIETQKTLQKINESR SWFFEKINKSDRPLARLIKKKR EKNQIDAINKDKGDITTDPTIEIQ TTIREYCKHLYANKLENLEEMN KFLDTYTLPRLNQEEVESLNRPI TGSEIEAIINSLPTKKSPGPDGFT AEFYQRYKEELHINRTKDKNH MIISIDAEKAFDKIQQRFMLKTL NKLVLVLARAIRQEKEIKGVQ LGKEEVKLSLFADDMIVYLENP IVSAQNLLNLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASRKIKYLGILTRDVKD LFKENYKPLLNERKEDTNKWK NIPCSWVERINIVKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIAKSILSQKNKAG GITLPDFKLYYKATVTKTAWYS YQNRDIDQWNRTEPSEILPRIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPLKP YTKIKSGWIKDLNVRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATKAKIDKWDLIKLSFC TAKETTIRVNRQPTEREKIFATY SSDKGLISRIYKELKQIYKKRTN NLIKWWKDMNRHFSKEDVYA AKKHMKKCSSLAIREMQIKTT MRYHLTPVRMAIKKSGNNRITI VLLPGSLIVRSFHVTLNAILLHP
14437	44805	A	14523	1	1701	
14438	44806	A	14524	1	4434	
14439	44807	A	14525	1	2913	MGGPAALCIAVVPGLVVALC LEEGLGSGIATWACSPWRISQG THLTFRSSLAVAAIPEGLPIVVM VTLVLGVLRMAKKRVIVKKLPI VETLGCCSVLCSDKTGTLTANE MTVTQLVTSDDLRAEVSGVGY DGQGTVCLLPSKEVIKEFSNVS VGKLVEAGCVANNAVIRKNAV MGQPTEGALMALALKDQEDIY FMKGALEEVIRYCTMYNNGGIP LPLTPQQRGAGPGDTALPSAAS AFARMSAAERNDAFQG

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14440	44808	A	14526	1	3009	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDGS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVPNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14441	44809	A	14527	1	4800	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEIIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14442	44810	B	14528	1	2901	
14443	44811	A	14529	569	3443	RKH*TWKRTSSTSHHKNMPN* LEKQEQTTHSKASRRQEITKIRAE LKEIETQKTVQKINESRSWFFER SNKIYRPLSRLIKKKREKNQIDT IKNDKGDTTTDPTEIQTITREYY KHL YANKLENLEEMDKFLDTY TLPRLNQEEIESLNR PITGTEIVT IINSLPTKKSPGPDGFTAIFYQR YKEELVPFLLKLFQSIEKEGILP NSFYEASIIIAKPGRDTTKKEN FRPISLMNIDAKILNKILAKRIQ
14444	44812	A	14530	3591	8157	TGTSQKKTFMQPKKHKMKCST ITGHQSNANQNHNEIPSHTKLE WRS LKRS GNNRDVGNVVEAM YGD LPPPIMLIGHSMGGAIAVH TASSNLVPSLLGLCMIDVVEGT AMDALNSMQNFLRGRPKTFKS LENAIEWRNIKDL SWADSIKNV AAASLACISGALPASAVTTSPD NKR MARNVLKYERLLAESPNH VVAEAVIQRPNIPHLQTRDITYE GLCQTLGSQPTLYQIPSLYCSYE TNSNAYLLLQPIRKEVI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14445	44813	A	14531	172	328	AVKTEPEMKSQATKLSVVHEK KSQEGKPKHEHTEPKSLPKQASD TGSNDAHNIKAVSR*SHRQPSC LWFMRKPNPKKESRKNTQSQKA YPSRHQIQEVTMLTI
14446	44814	A	14532	3	660	TSPDCWEEGRSVDWPRPGPALS LHNCKLDLGIEGGTLQPPTPSF* PTGTRAV/PTRRRSRQETQLNSE RTVSPGSR**EKRTSRAW/RSPL QGPFGHAGQVAGGTGPRTGS TRGD/TLQKCGKIQSVPLNCELI PI*/PSILKPKVLPSCPCGIGASS\N CPSD*VFFCTS*PWPYLLSYPLS MNFYRYHDHILKLLVQYTLYL LLQLQVLLKYLLSHPKQHS
14447	44815	A	14533	1	1086	MVDNDVPWPLVVAQEKGPDP LCLSSKGYRPLALVQLDFHQVS VTSKIFILSGALRSLTGAATAD WTCRVLVIYPHDIMADSECNSL LVPSTTRKIMKHMASEKIKTQ NFNYNVDECVSLLYHHKANKL EAAEARQECCELLRVASVSRHC W/RDPAHPHSCWPRC*APHCLG PARAPNARPAKPATTWNLRSSR APCAAPVPTQSWAGAPSGTAG AEPS*ECRPPENQARTAGSGVH AEACAPATCPACPGPGPCSGLP SSGRALFLL/CATLAIPCV*V*LC FLATPPPCR*HVTAPSAGKCIW* PDA*VTK/PRDLCGPVQVARDN GPRQVAQKKESSYVSWFGTFI SRVGDRSPPPRAATL
14448	44816	A	14534	23	506	PDIDNIFSEFGAKSKPYLTVDQ MMDFINLKQRDPRNLNEILYPPL KQEQVQVLIEKYEPNNSLARKG QISVDGFMRYLSGEENGVSPE KLDLNEDMSHPLSHYFINSSHN TYLTGMNFLVLCYFSQSHQISP TSTFCCSEAEV/WFSSISCEVPLR TLGFHH

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14449	44817	A	14535	341	1248	KNAFTSFLTSFPPGQISVDGFMRYLSGEENGVVSPKLDLNEDMSQPLCFMGIWGLFCWCFIAGQLAGNSSVEMYRQVLLSGCRCVELDCWKGRTAEEEPVKILAY*IYMCSHF*EVIEAIAECAFKTSLP TFLLFLFSLSPKQQAkMAEYCR LIGSSIFKEYAFHFY*LESGVPL PSPMDLMYKILVKNKKKSHKS SEGSGKKKLEQASNTYC*NGD MMICY*NLTGADTESDADDS GNV/CLFYSYFQGTAGSEAMAT EEMSNLVNFLTFFPFFVLLLLNSE RNKSFEMSSFVETKGL
14450	44818	A	14536	574	647	C*PGNM/HISGQHLVAGEKEAE SEDEEEEDMKLLGTPEGGSKFT QKKVKLAADED/DDDDADD DDDDDDDDFDDEETEEKAPV
14451	44819	A	14537	3	630	PGATHASAPPGVLRKCGSGPV HIIGQHLVAVEEDAQSQDEEEE DVKLLSISGKRSAPGGGSKVPQ KKVKLAADED/DDDDDEEDDD EDDDDDDDFDDEAEQAPVKK S\RDTPAKNAQKSNQNGKDSK PSSTPRSKQESFKKQEKTPKTP KGPSSVEDIKAKMQASI/EKKG GSLPKVEAKFINYVKN\CSRMT DQEAI\QDLWRWRRSL
14452	44820	A	14538	1	1971	
14453	44821	A	14539	316	1169	RVGGQSHGTQRISLCRHSVCSP LARQSPSNMK*VRTEEIQMAVS CYLKRWQYVDS DG\PLKQGLR LPQTAEELAANLTVHRESHCAD IVSAVP\CAEPQQYEV\QFGR RNFLIDSDSPHSHEVMPLLYPLF VCLHLSLVQNSPKSTVESFYSR FHGMFLQKAS\QKGVIEQLQTT QTIQDILSNFKLRAFLDN NYVV HLQEDSYNYLIHYLQSDSYTAL CKMFILLIHLVDVQPAKTTD*QL YASGSSSRSENNYLEAPDMPSPI LQNDAALEVLQERIKQVKDGC PSLTTVCFYNT*QLLNTAEISPD SKLLAAGFDNSCIKLWSLQSRK LKSESCQVDMRSRIHLACDILEE
14454	44822	A	14540	1	297	



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14455	44823	A	14541	2	1089	APLLGECRSGRGLASSRSRRRT TMTQSVVVQGLRRAGRDLVA AESSGHVSCLMSYSLSSGRS RLALREHAAVNQVPARRREPPR LSARSSSPYSFHLQSE*L*KKIH* LYFIFLSQAVLIDMEEGVVNEIL L*IRTNQIKK*MQGIFKIHLIFR AVGHKVFGSLYQDQILEKFQIL HNYILNHL C*FLKTL*SSGTGSG LGTFLKVL EDEFPEVYRFVTSI YPSGEDDVITSPFLVEYHLHPLF LIASLPMFFPQKSLFDIISKIDLM VNSGKV/GGTTVKPKSLVTSSS GALKIELHLKCIILKLIKFSF*C* LFSSARFEGSLNMDLNEISMNL VPFPSS*EIVSLKYVLYFN
14456	44824	A	14542	129	461	TCISGWHLFRASVTCPGIQTSPH NWHISDNSSLPNNIFIVCWNL GMTRNYIIFIEQPLKMNLWKIA TSKIRGKA FSDGIS\GNPQCNT RHVVEKRTGQLLPGRYYSKPF
14457	44825	A	14543	1	522	
14458	44826	A	14544	1	927	MEDLLTEARSPYWGRARAKIQ DSCWSVTSDPNAGSVDILAPLL LPSPSSYLPNFTCTVSVVTSHLH EAFDLGFRGTGGSNCKTSRQV QLNNQKRKKKSKSLPFHMSL QIQNYKTQEEPHAKPSSQQHQH SEHESIQTCLVFRSSMTYMH TL KLIREKGSIMLSSTQGECPNSTC RWPAAEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICSIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNLWKIATSKIRGKA FSD GISWEPQCNTRFHVVEKRTGQT T*INPDKISIQKHDIHAYIEAD KRKRKHNAVIHTG*M/YQI/GTC RWPAAEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICSIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNLWKIATSKIRGKA FSD GISWEPQCNTRFHVVEKRTGQI LNVKTMRMKTFMMIYYHLMN

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14459	44827	A	14545	1	882	MAEILTQVPDDMLKKKTTPRVK SVWRSQRGSCTPLIGTTELTD TSHMSIRNMDRSHINVHTVRKP SADLPYFRTHEWAHTGGKPYD CEECGKSFSISRSSIRRHIMHSG DGPYKCNFCGKALMCLSLYLIH KRTHTGEKPYECKQCGKAFSH SGSLRIHERTHTGEKPYECSECG KAFHSSTCLHAHKITHHTGEKPY ECKQCGKAFVSFNSVRYHERT HTGEKPYECKQCGKAFRSASH LRTHGRHTHTGEKPYECKQCGK AF*PRFQMT*RRKLPE*NQCG EVSVGHVHSLNRHHRADTGHP YEYQEYQGKPYKCTYCKKAFS YLPYFRTHEWAHTGGKPYDCE ECGKSFSISRSSIRRHIMHSGDG PYKCNFCGKALMCLSLYLIHKR THTGEKPYECKQCGKAFSHSGS LRIHERTHTGEKPYECSECGKA FHSSTCLHAHKITHHTGEKPYEC KQCGKAFVSFNSVRYHERTHT GEKPYECKQCGKAFRSASHLRT HGRHTHTGEKPYECKQCGKAFG CASSVKIHERTHTGEKPCSSNTS
14460	44828	A	14546	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSLAGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14461	44829	A	14547	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALSSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNG\GGLA GMGGIQNEKETMQSLRDRLAS YLDRVRGLETENWKLESKIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRAQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAAMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV

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14462	44830	A	14548	1	1212	GPGTGIAGGLAGMGGIQNEKET MQSLNDRLASYLDRVRSLETE NRRLESKIREHLEKKGPQVRD WSHYFKIIEDLRAQIFANTVDN ARIVLQIDNARLAADDFRVKYE TELAMRQSVENDIHGLRKVIDD TNITRLQLETEIEALK*ELLFMK KTPEEEVKGLQAQIASSG\LTVE VDAPKSQDLAKIMADIR\AQY DELARK\NREELDKYWSQQIEE STTVVTTQSAEVGAAET\TLTEL RRTVQVFGDSTWTSMRNLKA\ NLENSL\GEVEARYAL\QMEQL\ NGILLHLESQLGQTPRTEAQRQ AQE\YEALL\NIKVKL\EAIEICHL TRPPSWKIGEDFNL\GDSLDER NSMQTIQKTTTRRISWIGQSGV LRPIDTKVLEALSQQEASGTLL GKQEANKKFQSFK
14463	44831	A	14549	1	2382	
14464	44832	A	14550	2	173	
14465	44833	C	14551	1	732	
14466	44834	A	14552	455	682	AWKRAVALGKSRPMGAVAFK RRMQPVAGPRAMQEKFPSSSS SLSIPPAF*YRLALSLAEPSSRW RARTGALMQL
14467	44835	A	14553	158	368	
14468	44836	A	14554	87	251	
14469	44837	A	14555	1	1026	
14470	44838	A	14556	201	578	
14471	44839	A	14557	336	767	AFVRAGSRFGGTPGARPDPA TRAPNPVGQSRHLRAASSRGRL FLRRTRDRKFPRRRLSRLLG AI/GCRWNQPRAAEKSFSAGAV LDFSPGLSCLPAVQGS GPAARH A*ASHPLHGLLCCPSIPDEHHPL LHGAQSHRPPKG
14472	44840	A	14558	6	535	ARHRVLIGVFTIPELDILSTSPD SGAQLASPS\DPAPGLQVELPAS PARCARIPQPLGGRWDWAQTQ EPSWLHLVEPAPGLQVELPAS TPCACIPQPLGDRWDWAPWSR GWCSLGRLGPHRSPWSGWEAE AWRAAGPEPCPTGRQLRLGEK SSAAPVGWHCWGTQYTLRSH WPGC
14473	44841	A	14559	375	638	
14474	44842	A	14560	92	514	

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14475	44843	A	14561	54	380	SCHHYCRIHRRCARFLAGP*LPS RGARLGTCSPPCVSLPPAPWAP VRPEPPRRAPPPAPQRPVPSTTQ GLRSAGARRGTGRQLHLQLRG SAASFLKSVRPRTHQFRTH
14476	44844	A	14562	531	773	
14477	44845	B	14563	92	1774	
14478	44846	A	14564	1	390	LHDLQLSKPLSDDTALTDDGG/Q PLPARWWAQPGRLQRCARFLA GP*LPSR/WGRARDLQAMPEP PTPSVGSCAAQASPTSAAPCSM APSPIDHPRAWPVLCSCFMLS LFVASISSCSQHQPQMVGTMVC L
14479	44847	A	14565	165	545	SLHSLCWWLQQLWVTDTCPR CSVQDCRQRWASAGNQS*RLL VDPAPGLQVELPANPVPCARIP QPLGGRWD*APWSRGWCSSGR LGLHRSPWSGWEAQAWRAAG PEPRPAGRQLGAMSCKVETGT
14480	44848	A	14566	1	309	SACLAGRPIRGEGRPRDLQAM PEPPTPSMGSCAARASPTSATPC STAPSPIHHSRAEECGHTALG/H GRQLHLQPRNLPQTINWRTTYS SFPATLNRLDGGG
14481	44849	B	14567	1	843	
14482	44850	A	14568	143	535	
14483	44851	A	14569	375	571	
14484	44852	B	14570	289	972	
14485	44853	A	14571	27	363	
14486	44854	A	14572	2	490	
14487	44855	A	14573	574	961	RLTLPDRLGSPPDTHQAQQITW ALLPQGFADSPHYFSQAQISSSS ITYLGILHENTRALPADHV*LIS QTPISSTKQQLSFLGMVRYFC LWIPSFTILTKPLY*FTKANLAD PTDPKSFPHSSFRSL
14488	44856	B	14574	182	1513	
14489	44857	A	14575	894	1305	QTQEPSWLHLVDPALGLQVELP ASPVPCARIPQLGG*WDWAP WSRGWCSSGRLGPHRSPWSGW EAQAWRAAGPEPCPAGRQLRP GQHPL/RHMNKSQALSLLIAQP LGINLLSWPPKYNRPVPLIGL SGLLIPATF
14490	44858	A	14576	531	801	

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14491	44859	A	14577	441	783	RAPPPAPWRPVPSTTQGLRSAG EQRGTGRQLHLAAPVRDPRG EAIWAPESGRSAASILKPARPPA HREERTTPDAPP*EL*HSPRRSA ASLREDPWLHS*SQ*DQEPTNS GHTVSQDQSYYS*LEVSETKNP PIPDTL
14492	44860	A	14578	344	1632	FLAGPYLPSHGAGLGTCSLPCL SLPPTPWAPVRPEP/PPMSTTPCS TAPSPIDHPRAEECERTAQDWQ AAPPAAPVWDPLGEASWAPES GTNISITPGNATFVTRVQQQAW FASCITGHDMSSSLKTSSVVVLR RQSEALLPANLTCNWQDSSAL ATLESALSQVRHKRFTFTLMVF TGSAIDIMATVSI VVSITESVQ TTAFVDNLAKNICDELLQDM DEAGNQHSQQNNTRTENQTPH VLTHKWELNNENIRIQGGEHYI LGPVGGRDEKTLRLTYCLKSQ EGADTKCRNKHNETQKQSKS LVYSSTLNPEKLLVCKRLSLEL TRPENTLRCTNIGKLKAVAGG MSAASGIYLETDTQPYPLKQEL KEIKECVGKNSVVVFLVRKK LSVSQYAFARCLDAKHSTSENV EIAGKLRIQSFEVGKQL

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14493	44861	A	14579	3	2233	NWLPSVSRQCETHKIAANQSLT QRQMPLTSLYCDVVILPVSVGL ESLQSPYYRTSPCDPVSQFCLIK ISASSLPVLSLWKTLLKNAQSYQ RDYRHDNKAHYFQKLVTMQE NLYVLLCDEELDAVSLEAVHQ QKMKNRQAHSSSGCCQKVAN APRNEESSGQFRVIGNEKFEKG PCGVRQQIFEKVLLPNRTCEFV TPRFNRNFEDLIKDLKAAETLID FLVYEPKNQRRLVNRFRLPCKL LHNLGHPLKTDAAQSPRPKPPGP SWMPSTFGSKPPSHPLVSPHLNP QVWDTSSPSLATEHASLTISLKP NHPYPAQSQYSIPQHALKGSKP VITRLEHGLLKPINSPYNPILP VQKLDKSYRLVQHLCLIYQIVL PIHPMVPNPYTLSSIPFTTHYS VLDLKHAFFTIPLYPSSQPLFAF TWTDPDTHQAQQITLAVLPQCF IDSPHYFSQAQISSSSVTYLGIL MKTHIGLGAVEQGVVLVGEAR AAQEPMEWVGSGM/CGLQVP SPAPWEGS*GPARNRAQ\PVTIV PVLDNFNPAFHIIPTDTPDHDCI SLIHLTFTFPFHISFFPVPHLEHT WFIDGSSTRPNCHSPAKAGYAI VSSTSHEATALPRSTTSQQAkli AYTDSKCAFHILHHHA\VIWEER NFLTMQGASIINAFLIKTLKDI LLPKEAGVIHCKGHQKASDPIT QDNAYADKVAKKQLAFQLLSL
14494	44862	A	14580	1	642	SGTVPPTFVRTVIQAQGARTVI QQSLIGSLYIFRHCVRQCQIESV FVIIIWSRVGYDEKGFCLFTSVL GVWGHVVRTKPCLLITWRTLKS RSGLE*PAGFSSSPGTSPQIIRKQ KRGVPQHPVCDLPGRFRPRAGT PLAAQIQVPGLPPCGHQE*NRR WAGSSALCPPYLCARAGTGAV CRACEPAGV/AGWAWAWWAP HSEHAASPAGPRQWGT
14495	44863	B	14581	393	549	
14496	44864	B	14582	1	591	
14497	44865	C	14583	226	828	
14498	44866	A	14584	1	1362	

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14499	44867	A	14585	1	585	MANVHQTMPMLRLKLPDSFKP PEPKSNSQRVSTEAGTAGALTP QHVAHSSPASLQLGAVSPGTL TPTGVVSGPAATPTAQHFQQSS FEIPDDVPLPAAREMAKTSSGQ RYFLNHIDQKTTQQDP\RK TML SQMNVIANPPVQQNMMNS\ PQS PQGGV/MGGSNSNQQRQMRPQ QLQMEERLQLKQQ*LLQQELA LR
14500	44868	A	14586	345	1053	RWRLQNLSFCSSCSGSGSEGAT CFARGRQQSNLQSKIKFPSNTD SRSTGYNSFDRQPNICFYKRQE TPHTGPHVPPEGRPYMPG*CG A*SPGPFASRN*SEKN*SYKCSL HTAFNVIFSSVI**RYCTRQW\HI VKCLDSFCDPFLISDELRRASTD AGTAGALTPQHVAHSSPASLQ LGAVSPGTLTPTGVVSGPAATP TAQHLRQSSFEIPDDVPLPTSW GEAKTSSGSKI PF
14501	44869	B	14587	607	1185	

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14502	44870	A	14588	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLIGDGYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPKDNKKWGNDSL FNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKTLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
14503	44871	B	14589	1	1647	
14504	44872	B	14590	1	2025	
14505	44873	B	14591	4	2121	
14506	44874	A	14592	2	1879	
14507	44875	A	14593	1	2130	
14508	44876	A	14594	1	3018	
14509	44877	B	14595	1	3171	



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14510	44878	A	14596	1	2700	MEKKQSRKTGNSKNQSASPPP KECSSLQATEHSMENDFDEL REQGFRRSNYSELKEEVRTGK EVKNLEKRLDEWLTRITNAEKS LKDLMEKTMARELLDECINLS SQFDQLEERVSVMENQMNMK PNLRLIGVPESDGENGTKLENT LQDIIQENFPNLARQANIQIEIQ RMSQRYSSRAIPRHIVRFTKV EMKEKMLRAAREKGRVTLKG KPIRLKADLSVETLQARREWGP IFNILKEKNFQPRTSYPGKLSFIS EGEMKSFTDKQKLRYFVTTRP ALKELLKEALNMERNNRYQPL EKQIQTIREYYKHLANELEN LEEMDKFFDTYTLPRLNQEEVE SLNRPITGFEIAIINSLP/TKKSP EPGGFTAEFYQ\RIEKEGILPNSF YEASILMLKPGRDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHQDQVGFIPGMQGWFNIR KSINIIQHINRTNDKNHKIISIDA EKAFYKIQPFMLKTLNKLID GSYLKIIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NLVLEVLARAIQEKEIKGIQLG KEEVKLSLFADDMIVYLENPIA SAQNLLKLKGNFSKVSQYKINV QKSQAFLYTKNRQTESQIMSEL PFTIASKRIKYLGIQLTRDMKDL FKENYKPLLNEIKEDTNKWKNI PCSWEGRISILQMAILPEVIYRF
14511	44879	A	14597	1	2310	
14512	44880	A	14598	1	1305	
14513	44881	A	14599	1	2148	
14514	44882	B	14600	1	777	
14515	44883	A	14601	2	2971	
14516	44884	A	14602	1	3810	

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14517	44885	A	14603	1	1773	MNIGAKIINKILANQIQQHIRKLI HHDQVGFIQGMQGWFNICKSIN VIQHINRTKDKNHMHSIDA EKA CDKIQQRFMLKTLNKLIGDGKY LKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKDIQLGKEEV KLSLCADKMIVYLENPIVSAQN LLKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLQIHQTRDVKDLFKEN YKPLLKEIKEDTNK\NIPCSCVG RINIVKMAILP/KELEKTTLKFIW NQKRARITKSILSQKNKAGSIM LPDFNLYYKATVSKTAWYWY QNRDIDQWNRTEPSEITPHIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLDPLLTL YTKINSRWIKDLNVSPKTIKTLE ENLDITIQDIGMGKDFMSKTAK AMAAKAMSTKAKFGKWDLIK LKSFTAKETTIRVNRISYASS STSLQAFSRKILNCSKRFFKIAQ MCKLVELRPQDMHTSRGSGNC SEARTLLCDFSAGRTSVNHGRI WRQIREAGAADPEIGLEV CNKN PTSFTLFYFLSYTTG
14518	44886	B	14604	1	2070	
14519	44887	B	14605	1	3190	
14520	44888	A	14606	1	3370	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14521	44889	A	14607	569	3030	RKH*TWKRTSSTSHHKNMPN* LEKQEQTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKKREKNQI DTIKNDEGDITTHPTIEHTIIREY YKHL YANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLKLFQSIEKEGILPNSF YEASIIIPKPGRDTTKKENFRPI SLLNINAKILNKILANRIQQHIK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMISID AEKAFDKIQPFMLKTLNKLGI DGTYHKIIRANYDKPTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLARAIRQEKETEGIQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSGYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVKDL FKER/YNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIWNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPDKNKQWGNDSL FNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKMLEEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMLKLSFCTA
14522	44890	A	14608	1	2742	
14523	44891	A	14609	1	3828	
14524	44892	A	14610	1	2667	
14525	44893	A	14611	1	2325	
14526	44894	A	14612	1	3057	

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14527	44895	A	14613	603	2973	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGPH QNPICTSPSSKTKETQTTIREYY KHLNANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRITESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLLKLFQSIEKEGIL PNSFYEASIIIPKLGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKHIHGQVGFIPGMQGW FNIRKSINVIQHINRTNDKNHMI VSIDA EKAFDKIQPFMLKTLN KLGIDGPYLKIIRAIYDKLTANII LNGQKLEAFPLKTGTRQGCLLS PLLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLCLFADDMIVYLE NPVSAQNLLKLISNFSKVSGYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTGDV KDFFKENYKPLLNEIKEDTDKW KNIPCSRVRINIMKMAILPKVI YRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARIAKSILSQKNKA GGITLPDFKLYYKATVTKTACH RVGRAQQHSISKWKWYIHDWS QVGPEGTND SARYPD TTQKWT AAALQPLSRTSLKDSHEGKSSQ WAE LRAVHLVLRFAWKEKWP DVQLYTDSWAVASGLAGWSG TWKKHDWKIGDKEIWGRATPV IAQWAHEQRGHGGRDGDYAW
14528	44896	B	14614	1	3105	
14529	44897	A	14615	1	3654	

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14530	44898	A	14616	735	2839	RSFPRSRRSPFLLLSRYLRIH MV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRV IIKVRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDAT EIQTTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNR PITGSEIEAIINSL PTKRSPGPDGFTA EFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKPRD TTCKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHYDQVGFI PGMQGWFNKRK SINVIQHINRTNDKNHMIISIDAE KAFDKIQQPFMLKTLNKL GIDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQG CPLSPLLFNI VLEVLARAVRQEKEIEG IQLGK EEVKLSLFADD MIVYLENPIVS AQNLLKLISNFSKVSGYKINI QK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLG IQLTRDVKDLFK ENYKPLLNEIKEDTNKWK NIPC SWVGRINIMKMAILPKVICRFN APIKLPMPFFTELETTTLKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITPHIYNYLI FDKPEKMSIIDTGGWYEAPVSS FFKEGLCRTGTENQVNRQPPAA SPFKVYV SCTGSLHPRPHYFLE
14531	44899	A	14617	1	2250	
14532	44900	A	14618	1	2870	MKAEIKVFFETNENKDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKIDTLTSQLKELEKQEQT HSKASRRQEITKIRAE LKEIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKKREKNQIDTIKNDKG DITTDPT EIQTTIREYYKHLYAN KLENLEEMDKFLDTYTL PRLNQ EEVESLNR PITGA EIVAIINSLPT KKSPGPDGFTA EFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14533	44901	A	14619	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMMLST CDIDLTAAARAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASHLI PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIPGMQGWFNICKSINVI QHINRTKDKNHMISIDA EKAF DKIQQPFMLKTLNKLIGDGYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWYWYQNRDIDQ WNRTEPSEITPHIYNLIFDKPE KNKQWKGKDSL FNKWCWENWL AICRKLKLDPFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMAAKA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKKTNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL
14534	44902	A	14620	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTSHKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14535	44903	B	14621	1	2758	
14536	44904	A	14622	1	5178	

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14537	44905	A	14623	1	3382	MGDFNTPLSTLDRSTRQKVNK DTQEFNSALYQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCERTTEITNYLSDHS AMKLELRIKNLTQNCSTTWKL NNLLLNDYWVHNEMKAEIKM FFETNENKDTTNQNLWDAFKA VCRGKFIALNAHKRKQERSKID TLTSQLKELEKQEQTTHSKASRR QEITKIRAELEIETQKTLQKIN ESRSWFFERINKIDRPLARLIKK KREKNQIDTIKNDK
14538	44906	A	14624	965	4091	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14539	44907	A	14625	3	3229	
14540	44908	B	14626	1	2791	
14541	44909	A	14627	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEITNYLSDHSAI KLELRIKNLTQSRSTTWKLNNL LLNDYWWRKQERSKDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
14542	44910	B	14628	1	7849	
14543	44911	A	14629	1	3985	MENDFDELREEGFRRSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRSLRSRCDQLEERVSA EDEMNEKMGEGKFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLARQANVQIQEIQRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDIYRTLHPKSTEY TFFSAPHHTYSKID

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14544	44912	B	14630	64	5735	
14545	44913	B	14631	891	6894	
14546	44914	A	14632	33	476	
14547	44915	A	14633	1	360	GQGE PKQLGRHPGVLRPHVVS AKTGDAC/IWTQVRNLFPERPK VQWKEGCA\LQSGNSQESVTEQ GSKVSAYSLSSPLTLKADYEK HKLYACEVTHQGLSSPVTKSFN RGEIIEGEVPPCI
14548	44916	A	14634	40	508	LPGECHRAGQQGQRLQPQLLG LLMLWVPGSGGEIVMTQTPLSS SVTLGQPASISCRSSQSLVHSDG NTYLTWLQQRPGQPPRPLIYHV FKRFSGVDPDRFSGSGAGTDFTL E/ISGRVEA*\DVG VYYCMQG\T QFPCSFQGQTKLETKRTVAAPS
14549	44917	A	14635	3	652	AWWNSETPAQLLFLLLWLPHY TSGEIVLTQAPGTLSPGERAT LSCRASQTIGSTYLAWYQQRPG QAPRFLIYGASSRATGIPDSSSSS SSSSSSSSSSSSSSSSSSSSSQ YNNWPPGGTFGP\GTKVEIKRT VGCTHLFFIFPAHLMSQLKIWE LPACVPVCNNF\YPREVQSYSG KVDN/VPSNRVTPRESVTEQD\S KDSTLQPSAATLDA
14550	44918	A	14636	3	440	
14551	44919	A	14637	457	1270	SRRVSFPPSA*QAVSDPSRQQLP SLRLRWGPGRSFP AENLGRGV RWVGGRDPLAA\LP*SSGPLNA GRLFARPQESGAPRIGNVRDVP RAREDVGTQAGRREREFRLFG PAAVVG CERHLSPPFRAAGAG GRAGAAGRRSAPPGGLGSCRSC RISAGPHGNDVPTLGGRGW/PL *NSGA EKL*EQ*G*/TGTGSWSL AAILGGVPREP\GFRGAGRET LG PRGWL VMLSRAVLLHSVLLCT CHSSWVLLHSDLACHADNNPD IQSCLFPMSKY
14552	44920	C	14638	90	465	
14553	44921	A	14639	116	439	
14554	44922	C	14640	278	364	



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14555	44923	A	14641	116	687	EIKDAALQLPLWRAQDRERAM KERREKREREKERDREKKRK EKMFCRSCHTIMEPTPELSCV LPCLAPIVLAPPPLPLPVLP LPYATR*LPQQNRQSTLTEAHGL\TR GPITLATNRCMPSTTRDRRLT PPSTLPNTTNLSWGVREGPNQD PEPSLSPCVPHDPFDYNAESLFS YWLVSVTPMTAHTP
14556	44924	A	14642	474	1166	HPNRQGLRAPATAPGHPGREQ ALCEAPQGPQKCGPPRAQEA Q/GTEPRRASRAAGACRHHWP QVA\RPGAGAPAGAARLGGV*E PGRAA/APRLPLPSQCCHR*GTS PAHLSASRSSATCPWRRTAGR SGPSPCMTL\KQRQGHPRDGI RAPSCDVTNRGLSSLLNLGGS AQQLLASRPLGSGSGALEAH GKSRAPWEPWLHGTHNPVHGK DPAGSTSHWPRPPART
14557	44925	A	14643	283	806	PRGSFSTGRTRNAAGSTSNCSL RSLSARIEERKVSRCVGNHR HLRLGALTTTRPSWNGAIPTLA KLPAKRC*RRSGRSKTWSFPG ST*LGNFAEEMICAASARPAGV PGPAL\PTPLRAPLPGVPWTSSR GRMCARLSCC/HAGRPVAPRG AARARRAAAGERHRPPALRV
14558	44926	A	14644	1	338	
14559	44927	A	14645	1	1091	MSNDGRSRNRDRRYDEVPSDL PYQDTTIRTHPTLHDSERAVSA DPLPPPPLPLQPPFGPDFYSSDT EPAIAPDLKPVRFPVDSWKN FFRGKKKDPEWDKPVSDIRYIS DGVECSPPASPARPNHRSPLNS CKDPYGGSEGTFSSRKEADAVF PRDPYGSLDRHTQTVRTYSEKV EEYNLRYSYMKSAGLLRILG VVELLGAGVFACVTAYIHKDS EWYNLFGYSQPYGMGGVGL GSMYGGYYTGPKTPFVLVVA GLAWITTHILVLGMSMYRTIL LDSNWWPLTEFGINVALFILYM AAAIISM*MIPTRGGLCYPLF NTPVNA\GSAG*KEDR*LQ*SSC LSP**FISLVLWFA

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14560	44928	A	14646	398	1107	SPGLVCGLLIFCKVTVPICAGPY RCPFGGLRH*SAR*QPPSGLREN GARPPGGEWLCPC*FPP*PLNSR WKLPPRLVT*GEPWAAGEKFP RLGAGTGPAAGEGLPRARDWE PGRAGPERWAPGRGPAGTPAK TAAVKRSAPLPGS\GDYANGER KPPSPFCQVKSGNL*VLCG*RL SLPAA*KPKKA*RRGRRQSPGK TGYQVQQTRPKNDPKSS\GPSP KNRQSLCLQPLWSFLIQ
14561	44929	A	14647	1	540	MGVRDPLEEAVCALAELQHCA GRFAALFRASRQERLSLLKLC QLPLPPRALSQGYKPLIGLLAF FQRCTAQRGGI*RGSLATVTLAS CGGLCPV*TSQRRCL\PVRGKLP TQASVMANAPPRTLQHLRSTS DCCAGSENFKPVDSLGLSGVG GSTELDHLAPWLQPAFQGSEW FYLTF
14562	44930	A	14648	169	487	EVCYYPSETYFCQFVKLILCPV LFPCWQGVVIQPKLSCMRCLST \LLRGVSQ*GYMGVRDPLEEAV CPLAELEHCAGRSAALFRAGRQ ERLSLLKLRPQLPLPSA
14563	44931	A	14649	1	210	
14564	44932	B	14650	1	1683	
14565	44933	A	14651	1	529	MDSEVQADDEVSDENGELIGN WGKGGMGVSDPLEEAVCPALAE LERSAGRSAALFRASRQECLSL LKLT/LTAAPSPRGTAFRSPFKS PAQRRSIIC*Q/LYSCKTFRSTVA PMPRLCLPQASGVQ*EN*SWA IPA*QGTSPMCSLCSGAPHQPG APLVLPPLPPVNRLRRELQCWL
14566	44934	C	14652	295	430	
14567	44935	A	14653	452	637	
14568	44936	A	14654	151	446	MVLSHWHSRCHWGMKKNYLQ LARCLPKWLPFVFETQGPCDV STQGTLLVYGLQRPWEKHSI*A R*HHPSQHGPSQLPLARGGSSP TPCASRMQRHPT
14569	44937	A	14655	2	335	EDRSAFRPRQPHTLHPLHARSL APRSPTPPSPSPDTQLGLSGPTS GPESAPTA/PGNPSWRSSRWGSS SPCAASST*KSPYP*/CSPT/CAFP SPRLPFCRSAYQPAAGAGRK
14570	44938	B	14656	373	502	

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14571	44939	A	14657	1	400	GSPAPAAMDEERALYIVRAGE AGAIERVLRDYSKVKSPGPGR AVSHPRALRACTSHPSPPPSFR GCAL\PPPKTFFAWACVFVPPAF SIHAS/SHPTTPTVAPTPLIPGA A*PPVLLSSVQVTPPESVDVHL
14572	44940	A	14658	659	1177	ARKGSALLRLYLNSAWCVCVK VLRIFSTASAYITRRDSSLGPVW TFLNFSFGSPGEIPTFFFFPVFP LPLVAWFCPASFCPLQCP\LVPS EPSPPPHSGDAHCSPPKTFPAW ACVFVPPAFSIHAS/SHPTTPTV APTPLIPGPA*PPVLLSSVQVT PPESVDVHLCVPVPHS
14573	44941	B	14659	1	318	
14574	44942	A	14660	2	131	
14575	44943	A	14661	354	762	CPEIRPPS*THGTK/SHFPPTASG THSVLEAL/PDTRQSPRVHQ DPSPAI/PALLPSPHEHGPQHLL QLPSHRCHPDTAPFNCDVAKAC PGHATAALEHPYLSGRQSPSP THLPKLPAGRGYTVCALPKGPG ERSAV
14576	44944	A	14662	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
14577	44945	A	14663	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCSP SLAIEMQIKTTMRYH LTPVRM AIHKSGNNRCRRGC GEIGTLLH CWWDCCKLVQPLCKSMWRFLR DL\DPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
14578	44946	A	14664	1	1584	
14579	44947	A	14665	1	4729	
14580	44948	A	14666	1	1566	
14581	44949	A	14667	1	1424	
14582	44950	A	14668	1	576	
14583	44951	A	14669	1	3325	
14584	44952	A	14670	1	2195	
14585	44953	A	14671	1	3162	
14586	44954	B	14672	287	2018	
14587	44955	A	14673	1	1073	

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14588	44956	A	14674	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLQRLDLSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETQ
14589	44957	A	14675	1	1838	MIIPIDAEKAFDKIQQPFMLKTL NKLGIHGMYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIHQEKEIK GIQLGKEEVKLSLFADDMIIYLE NPIVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSL NKWCWENWLAICGKLKLDPFLL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRYHLTPVRMAIHKSGNNRC WRGCGEIGTLSHCWWDCNLVQ PLWKAVWRFLKDLELEIPDPA ISLLG/IYPKDYKSCCYKDTCTQ STFTCRQHLPL

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14590	44958	A	14676	1	2354	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHRTYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWQLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKA VCRGKFIALNAH KRKQERSKIDTLTSQLEKQ EQTHSKTSRRQEITKIRAEKEI ETQKTLQKINECRSWFFEKINKI DRPLARLIKKKREKNQIDAIGN DKGDIITDPTEIQTIREYYKHL YGNKLENLEEMDKFLDTYTL RLNQEEVESLNRPI TGSEIEA SLPTKKSPGPDGFTA EFYQRYK EELRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPM TFFTELEKTTLKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMLHIYNHL IFDKPDKNKQWGKDSL FNKWC WENWLAICRKLKLD PFLIPYTK INSRWIKDLNVRPKTIKSLEEDL GNTIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWEKFFAIYSSDK GLISRRYNELKQIYKKKTNSPIK KWTKDMNRHFSKEDIYAAKRH MKKCSSSLAIREMQIKTTMRYH
14591	44959	A	14677	1	3144	
14592	44960	A	14678	1	2745	
14593	44961	A	14679	1	2742	
14594	44962	A	14680	1	3264	
14595	44963	A	14681	1	2982	
14596	44964	A	14682	1	3102	
14597	44965	A	14683	1	1443	
14598	44966	A	14684	1	3723	
14599	44967	A	14685	2	1841	
14600	44968	A	14686	572	744	DLLTTIRMPTDVKKCSSSLAIRE MQIKTTM*YHLTPVRMPIKKKS GNNRCWRGCGEI
14601	44969	A	14687	1	3588	
14602	44970	A	14688	1	5569	
14603	44971	A	14689	1	3992	

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14604	44972	A	14690	755	2415	QELRVSGWSPASAPANT*CPPA QPCPTRRSGGQRAPARTSRPG SRPRTASALPRPAAQKAASRSA RASRTNPYTAPKPLPSVESALQ EAAIGEHAHQQRVSCTCAAPA APPSPAWPWSAARSAAPPPRT* ASAPA*SPL/PVRLKKSPGSSNC EARGEGWKT/PALPVQLGAHGP PQPAAVPCASPGSGAGPRWSRS ARRTPRGPLQRGRTWVSPDPGR EATPSGTQWPQKTRGSLPGS*C APETPCSAA*SSGTSPPRGAGGC CPGTVPPALEGHN*PQRWGS AGRVE\TRAEGPQCQQGAPAGC SLGVGGQRGPPGLPIPVGLC* TCRSS*MEAATGSVEKCKRMA SLMQASRWSFLRVAPVSGQVK YTPGTARWAEPSSLGSDTTLVP GAS/RAPADGGFGLKFLSHLVS DGVLRGCGPRPGTASAPAGLR AAAA\PSVPSLVGPWRGGLGAG WLGFSLWAFSPTDSLSP*PGPA LLNLMSALNS*KNFFMVAARS CGGGTRGRGGTGPSRGRGRRR PATGRK*KKKKKKKKFTSPPEV PPSPGLPRDNRL
14605	44973	B	14691	1	822	
14606	44974	A	14692	1	2789	MAAVRKQLPRGVLYGGSGAL LSTAAADTSLLGSLQERKSAS AGPGYLRSSVAAWSGLWLTGA SEAHSVVLACFSRKDVEASLSV GLPVHPDASCARRLDAADGVA GGSPRLPQSTDGWRLTAHSLPQ STDGWRLTAHSLPPTDGWRL TAHSLPQSTDGWRLTAHSLPPP TDGWRLTTHSLPQSTDGWRLT AHSLPQSTDGWRLTAHSLPQST DGWRLTIHSLPQSTDAWRLTA HSLPQPMDGWSCRSAQWCV
14607	44975	A	14693	176	440	
14608	44976	A	14694	114	253	

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14609	44977	A	14695	124	890	GSRAWDRPRLEVA AATTTLFY GYGFVSAELKKASKRMTCHKR YKIQK\KAPEHHRKIRGEAKKR GHNKPRKDPGVPNSAPFKEAL LAREALRKQRLEELKQQQKLD RQKELEKKRKLET*SWIFKPSN V\DPMEK\EFGLCKTE\NKA\RSG KQNSKKLYCQELKKVIEASDV VLEVLDARDPLGCRCPQVEEAI V\QSGQKKLV\IYLNKSDL\VP KEDL\ESWLKLF*RKDLPSNGCF RASTKTQRVKGKITKVSFIS
14610	44978	A	14696	553	997	EVTACWQSSQPSLT LGASSAW APTLAAL EEPFSPPLHCGSPFLG WPRLEPAPSAPPWAPVRPEPPQ QGPPSAPGRPISTTQGLRSADA GRRTGTQLHRQPAKVCSF/IS*S QRDHEPTRRNEQLQTRRLKSCN THREDLQLHSRRKKL
14611	44979	A	14697	1410	2036	
14612	44980	A	14698	3	630	RYKGSPPRHQTQEPSWLHLVDP APGLQVELPASPAPCARIQPL GGRWDWAPWSRGWCSSGR LG QHRSPWSGWEAQAWRAAGPK PCPAGRQLRPGEKSSTAPVGRH CWGIQYTLRSHWPGC*VPHSSG PAGLAGCSGTPAGPQAPHAAP V PARA/CSLHTSLQAEGVGSSL GQPRKGLPQCRWGLKGSSNAA KVGAQAGEVQARALRTAS
14613	44981	A	14699	190	383	ASHPLRGLRSGRSLPDERHRL HSAQSHRPPKG*GVRAQGAGL T/WQLHL*PQCGIHWVKPAGLL
14614	44982	A	14700	1	1095	
14615	44983	A	14701	1	777	
14616	44984	A	14702	1	933	
14617	44985	B	14703	1	996	
14618	44986	A	14704	978	1207	ASLPLRGLLCPSLPEERRPLLH GAQSHRPPKG*GVRAHGAGLA/ WQLHLRPRCGIHWVKPAGLLS LGPHQSSKSA
14619	44987	A	14705	111	558	

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14620	44988	A	14706	1	1103	MKPWALKVSVTALKVARLEFV PPDVRMCSEFLPCGVKLQTFV SVTALKAAARLELFVSPGGLVVS LASGVKLQTFPVSVTAHKSSVD PRSEQQDILLQRAKEQTFHTVE GDRSGSPDGAQLASPSGSRT RAAGGAACQSRALRPHSSALG WSMGLGAVEQGAVLIREARAA HEPMERVGGSGMAGCRSRALP REKAAKARRETEGSAAVSGWL SGIAQWPKIDHEGFRAVKMPQ AAWLLKAVTFIDLTTLSGDDTS SNIQRLCYKAKYPIREDLLKAL NMHDKVAAGFPAGQTHLKTRL EEIRLAVEDGATEIDVVINRSLV LTGQWEG/LYSPVVYSALPCNI* HSRLFLPSGNALLLWLWCLHS
14621	44989	A	14707	2	2300	
14622	44990	A	14708	2	1058	ARSNIRMVTAFRSLPAGSSGAA RA\MSAHNRGTDLDSWISKIQ VNHPAVL\RRAEQIQRRTVK KDWQAAWLLKAVTFIDLTTL GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGIT\TAAVCVYP ARV\CDAVKGTSRPA/CVNIPV GISRAAGF\PAG\QTH\LKTRLEE IRLAVEDGSLQKIDV\VINRSLG A*QAQWEALYDEIRQFARKAC GEA\HLKTLA\TGELGTLTNVY KASMIAMMAGSDF\IKTSTGKE TVNATFPVAIVMLRAIRDFFWK TGNKIGFIPAGGIRSAKDSLAW LSLVKEELGDEWLKPELFRIGA STLLSDIERQIYHHVTGRYAAY HDLPMS
14623	44991	A	14709	576	998	VLQFLKAACPEFVPSGVPMCSE YLPSSGFVVSLASGVKLQTFPV SVTALNALRLELFVPPGGLMVS LASG\GSCRSSR*VLQLIKAVWT QRPLGGRWDWAPWSRGRSFG EARAAQKPMEGVGGSGMAGC RSRSPAPREGS
14624	44992	A	14710	2	589	RHHPRHAVQARFPAGPLAGA QRGSGAE*RG PQGS\PGPAGLS GGESL/PGETDRGADKEERGRQ RWQRALGRLSAGADPLPAELR GRRQRRGR*AGQRAAQEAACE APIQSGARNGRRG*GRRL*GC YQ*V*FPGLTRGWGRGSRPSAV HCGWEPP*AGKPSGQTPRHSG* PAG\VDGLPPKVTGPPPGTPQPR



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14625	44993	A	14711	1	1596	MRLTRCQAALAAAITLNLVLF YVSWLQHQPRNSRARGPRRAS AAGPRVSLPPHPLTCVWRCSR AMDRPPAASRPETTVATEFVAL VLDGARAEAHALLERMVEALR AVSARLVAAPVATANPARCLA LNVSLREWTARYGAAPAAAPRC DALDGDVAVLLRARDLFNL PLARPVGTSFLQTALRGWAV QLLDLTFAAARQPPLATAHAR WKAEREGRARRSALLRALGIRI VSWEGGRLEWFACNKKNQRC
14626	44994	A	14712	225	980	VPSRTWAEYRTRFVPHSLGQPR SSHIPQSPQTDQTAQQGQALAP PAGRSGQ*GRPGRRARLGPGER HS*APPPLSQLLLQTFPHLQALP SAHARPSGQPHADRGHSRSPSG /DLSTSSVLKVVRPQAGGPKQA RCPQAGRVCCHCPRGGRRGPE/Q Q/GG*RPEAPQASPEKGSTGLRP SAKDSKNQGTGIFLRCQVAPRP EALCCPPPRGADTPVSPCLWVA GAGIPLQPPEGAEGAVLGS LCTCPGSPDSPPTS
14627	44995	B	14713	405	893	
14628	44996	A	14714	178	499	
14629	44997	A	14715	231	436	
14630	44998	A	14716	141	393	
14631	44999	C	14717	97	351	
14632	45000	A	14718	119	358	
14633	45001	A	14719	21	614	PPCTSLRPLHAFSGKMTHLNRG TSLLDSQLHNLIQMTCKFD VEIPNFFWEPSVTPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGFGGYLSSDVSSSP RKAASVSMYTVITSMLNPFY SLRNRDIKGVLRQPHGSTVQFQ YLLICSIPFVWVKKGSKVK
14634	45002	B	14720	162	1263	

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14635	45003	A	14721	696	1791	VWIALKSENITCELLLFKMQTQ CQVLVYLFPIFQPSFLGKRCPI TDPQNLTDSIFLLLEVSGDPEL QPSPCWA VPCCAWVTVLGNL LIILAISPDShLHTPMYFFLSNLS LA\DIGFTSTTVPK\MIVDI\QSHS RVISYAGCLTQMSLFAIFGGME E\DMLLSVMAYDWFVAICHPL YHSAIMNLCVSGFLVLLSFFFF LSLSDSQLHNLIALQMTCKFDV EIPNFFWEPSQLSHLACCDTFTN NIIMYFPTAIFGFLPISGTLFSYY KIVSSILRVSSSGGKYKAFSTCG SHLSVVC*FYGRGVGGYLSSDD VSSSPRKGAVASVMYTVVTPM LNPFYISLRNRDIKSVLRRPTEH CLISKK
14636	45004	A	14722	1	1971	MTRKVTLLRLTWRGCGRLA MGMEATPQSLHPLFQEHWIR AEDFGVLSMPHPNSVQGVDDM IRLGDLEAGMVHNLLIRYQQ HKIYVSLPSPVSTGEPLTGANLL DREKKMMHRGHCPALTEGVS GPDNPEGRARAKAKAKARAE PLPGAEGTDHLLPSQTYTGSILV AVNPFQVLPLYTLEQVQLYYSR HMGELPPHVFAIANNCYFSMK RNKRDQCCIISPQNRVGAQTD VLKVFQHLLISLICKTTLQACCI PSHPYLSSAPGPPPLTTQCRSYS DSLLGPQLFGDVCYNCSHVIEG DGEALCSLPHPTCSPGAWVLQL VSPLNKA WCVSCFSCSTCNSKL TLKNKFVEFDMKPVCKRCYEK FPLELKKRLKKLSELTSRKAQP KATDLNSAEGPLAQLGAVGA/V TGITHEPHIPQVENGSQLDDV PALGV\ENWRIFMAERMEAQG GQRLLLSTMHEEYEFVSPSSVAI AELVALFLEGLKERSIFAMALQ DRKATEGGPVGLTKKQGLLAS ENWTLGQNDRTGKTGLVPWH CLYTIHTVTKHSDSCCTAVPTL LEASSGCIFMSYKKHITLTPKSA DSNKRSTLGSQFKQSLDQLMK ILTNCQPYFIRCIKPNEYKKPLG FSDSFMLIKLIRIDKVQYDSFSYI

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14637	45005	A	14723	1	1197	MNMNIKKIVKQATVLTFTTALL AGGATQAFKENNQKAYKET GVSHITRHDMLQIPKQQQNEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHV VFALAGSRKTLMTHTQSTCPKH RASRVGPSNSLQNKQTVKKGD QTSVRRKRNDLKVEERHKNHH LARELTSSAAAA SPTGHAAATA QAPQRHVEVGRAAAPAGDLGE GIVGEQVLGAERLVGPDA SRAR ALCVLGDRREAGHTAEMTAAP PAQVPGPGGPTALRRPSSYLGL GVDEQNPM SVDGDEDDVRVQ HQLRDC LIKHTILIRGEFVTRS LNIAQAADRRDAFVKGIYGALF LWIVKKINAAIFTPPAQDPKNV RRAI/GLLDIFGFENFENNRI RT LCWRYREAR C
14638	45006	C	14724	1	1032	
14639	45007	A	14725	1	4960	MSTTSIFQQLNLLLSHSHKQKQ QIQLPNGRSRY SCLMAAFRMQ YFLSLPMKSLILVGFERLQAIAR SQPLARQYQAMRQRTVQLQAL CRGYLVRQQVQAKRRAVVVIQ AHGQGMAARRNFQQRKANAP LVIPAEGQKSQ GALPAKKRSI YDVTDTMVEKVFGFLPAMI GGQEGQASPHFEDLESKTQKLL EVDLDTVPM AEPEEDVDGLA EYTFPKFAVTYFQKSASHTHIR RPLRYPLLYHEDD TDCLAA
14640	45008	A	14726	86	370	RTWMTHVWRRRRVQAAPTAY SSFRPGTSPCPAQPRAGARA*TR SGTSIMPTGFSSHTSCLTV P/PFT ASSAGQHRQRHRKTTAAGHPT TTGAASF
14641	45009	A	14727	3	455	MQSVLPAHGVSSSTRASSRSVTL SSPSTSTNCRGRKSSRV TSPVG SGPGGGGGGPGSGRFGIDPPRK FAAAGSFSTGAPSSVMVVRVSG MPSLSW*QYP*SCSTLGCRSRSS STISLSSLWA/VQPIAAPPYPELA TQLPISCR*SPSPCAPS

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14642	45010	A	14728	338	1782	NQLSK*KAHSIRT*TALQQSSGR SQICIVQSSADALPSSRCTNPSS FTPTPLPPRPHPRCTSLGCRSR SSSTISLSSLWAASR*QPLRTPN SRTQLPRSWPLKSTALSPPPPGQ ATRLCWWMVSSK*RTWMTHV WRRRRVQAAPTAYSSFRPGTSP CPAQPRAGARA*TRSGTSIMPT GFSSHTSCLTVPLHCVLCWTA SSTPQESSPGGWTRPWPSWRR CTCTGAGRYLQNSTAS/T/PVPS TSVSQTAPSPKEDYRCWPSYHH GSLPPFSVQPG*GCGMSVRAMP SVGPLWSPTRPPGQIKRQNYLL NYWSCWKMTLLAGIIPSS/TGS RPADLDYFLGSSQCPDRDLTK GHVSCDPTSSISITGEKLGKLE S/SSTLADTKSAFLQDSWT/SSLP TLGASAI\RTTSAS*TDQCPPAP GPLHVSF/SLNSTYPSRLCSSTCS TVDSFQIIPMPN*MPFSTCGAFC WCLWFSAITALYFVM
14643	45011	A	14729	148	1040	WCTGSQFSKGTWEILLRKKPSL GNVGALPCVATACTTVEKRA PRGHPLAPVLGDICPKVGSMSS STSEL/CTWGNFEFWGRNKYNH WF*WGWALLHQFKMGKAQG LQEASFYRKDTY*A/TMP*NPIG ISEFGT\LALPGCKNVFERFMS RFELPGKAAAMTDNTNVNYVR YKGDYYLCTETNFMNKVDIET LEKTEKMWKPRFRGICPQLQG CSVTEQGFESDDAKSWALQH PKRPAQQDWAMSRGNQGWAN LGLKIIRGEAVTTRAKEVS VVL KVLEVTDGKVWAREKKLRDSR
14644	45012	A	14730	189	507	AAGADTSQGGPGGPPPSQSQR\ PKSPSAGRKGSQSPQPQKGL PSPQGTRKSAPSSKATPQASEPV TTQLLGQPPTQEEGSKAQGMR* PPQRLGASTQQQTNEAA
14645	45013	A	14731	2	356	DGVSLCHPGWSAVARSQLTAT SASWAVCWQGCGETGILLPCW WECEKVQPLWKQYGRLSCEDH LNS*VQVILTTPPILFPKWLHL FTFPPTGQKDSSFSTLPTHCPG GRGCSELRSRHCTPAWVTE

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14646	45014	A	14732	1	408	FFFFFYTTFFLFFYFYFFEMESH SVTQAGVQWYNLSSLQPPPPRF RRFSCLSLPSS*DYRCPPHPAN FLCF**RQGFTLLAKMVSIS*PH DPPTSASQSAGHVLTSKWELNI EYTWVIKMGTA DTGEHKNGEG WE
14647	45015	C	14733	262	536	
14648	45016	A	14734	179	745	TDCLHNRCHRSPRSPPPGPPG*R SRADWWRRGRCWGSWCASSR RVC*RCPAPSASFCCRSRGRQ GRTFPPSPCPAPD*TQVPSPGDS TRPCPPSPSPAHRAT/GCCGRR RLPGNASYLASPGKEAGEFPAS QGDS*PGQYGYIGDSSS/RPTRG TWMAKASTPRHPIAPQICGA*G FGEHQEVPVREK
14649	45017	B	14735	1	1164	
14650	45018	A	14736	35	542	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSG/LHTKGAL PLDTVTFY/KDYGDKLNMELSE KYKLDKESYPVFYLF RDGDFEN PVPYTGAVKVGAIQRWLKGQG V\YLGMPGCLPVYDALPGEF\IR ASGVEARQALLKQGQDN
14651	45019	A	14737	11	908	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSG/LHTKGAL LPLDTVTFYKVIPKSKFVLVKF DTQYPYGEKQDEFKRLAENSA SS\DDLL\VAEVGISDYGDKLN M\ELS\EKYKL\DKESYPVFYLF R\EGDF\EEPSSHYTGGS*RLGAIQ RWLKGKGKVYLG DGLELVCT V*LTPWSGEFIRA\SGVKARQAL LKQGQDNLSSVKETQKKWAEQ YLKIMGKILDQGEDFPASEMTR IARLIEKNKMSDGKKEELQKSL NILTAFQKKG\AEKEEL
14652	45020	A	14738	3	227	
14653	45021	A	14739	1	424	
14654	45022	A	14740	1	207	
14655	45023	A	14741	2	352	
14656	45024	A	14742	1	441	

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14657	45025	A	14743	1	461	MTVDYRKFNQVVTPMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAF\LPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPWQVVP
14658	45026	A	14744	1	928	
14659	45027	A	14745	283	1074	
14660	45028	A	14746	450	1970	VRVLSPEKELKLWKNTHKLL SYPTVGAAVTQLQNLTAMGVI GSHGARGQVVALNRQRQGD QPFRVTVHWGKGYDRTFWGL LDTGSELTLPQDPKHHCGPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGDILSS WQNPHTSLTGIMVGKAKWKQ LELPLPRKIVNQKPYCIPGGTVE ISATIKDLKDAGVVIFTTSLFNS PIWPVQKTDGSRMTVGYRRL NQVVTTPATAAAPDV/VVSLLE QINTSPGTWYAAIDLANAFSIP VHKPHQKQFAFSWQGGQYAFT VLPQGYINNPALCHNLIQRNLD HFPLLQDITLVHYLNDIVLIGSA IKWVMHSS/DSIIKWKWHVHDR AQADPEGTS*PGYGHF\WCPIC QQQRPTLSSQYDTPWAIQLPG DRLIIGPLPLWKGQKFVFTGIDT YSGYGFAYPACNASAKTTIMES QNTLSTLMVFHTALPLTKALTS WLKKCSSGLMLMEFTGLTMFSI

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14661	45029	A	14747	1	2589	MGPPYKPPTTWPPQTL SYHSTT PVKLQSLSLPPTAARGATEPCH LQAPASSVQQMTTPAPGLKHL GGKSQMCLEQDGRSGSVRGSP CHAGHWVAGAGFGKGTTRTW GHVNLIVPPNCPTASSSAARDS APNQPLLGVVTAQIVPPTCPPA MTVQELIAPLTLPPAAGCRRGV RPFQTRVWLLAQLLRARLGGP GEGVVTCHSWRLERVAPRLAS LWWALAAETAARLDWAAKRP SAWGSIKAAEFSSKATPRLEGA SSRTLWVSYIAKETTTGKNGP VEPSHLWEAYCRATAPHPAVH SPSAEVITYTCGIVNLLLQGLVP KSHLEHTGCHVVVELIICSVV LPLISRLSDPDWIHLVLMVIFSK ARDPTPCPASGPEQPSVPTSLPL IAEVQQLPEGRAPSPVAAPGFLS KQIQDALCALEGSQALEPKGGE GSEGVEAEGPGTETETVLPVST LNFCEIQIDIADKEIEQGEVTTT VTALLEGLEKTCSSRPSCLEKD LTNDVTYLDPTIFSFELSSPDG PVVIQNLHITGTITAQELSGTGL QPCTRYTVKCETSLDGENSSLQ QLAYHTVNHRYWEFLNLQ/SH QEKKPDL*KFIKNIEKMVVS VDNLKTAFPCSESQGPTEELSE AETESKSQTEGKKARKSRLRFS SSKISPALSVTEAQDTILYCLQE GNVESKTLMSGMESFIEKQTK
14662	45030	A	14748	478	3507	SKILRAVIWGSHLVRSAMKTET VPPFQETPAGSSCHLNLLSSR KLMAVGVLGWLVIHLLVNV WLLCLSALLVVLGGWLGSSL AGVASGRHLERFIPLATCPPCP EAERQLEREINRTIQMIIRDFVL SWYRSVSQEPAFEEEMEAMK GLVQELRRRMSVMDSHAVAQS VLTLCGCHLQSYIAKEATAGK NGPVEPSHLWEAYCRATAPHP AVHSPSAEVITYTRGVNLLLQ GLVPKPHLETRTGRHVV
14663	45031	A	14749	1	417	
14664	45032	A	14750	34	350	RERQEGGVAGRVMDSVVE RGAYADQIWGRPKGGESRGEK RKGRWVQRVRLRARVTPAGL GECKWGRGRGD*VRRVKPRAL RERWGDGSTVSDSTPMKPGLE

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14665	45033	A	14751	1	1604	MASKRCIRDFRSRGGKLSFQL YATFRKEGCGPVLANGNPGGG RGQEVSATQDLRRGWGIASSAS RFPWRQSWPGRPRLGNYDSGA PGEAKMPKSGKDKKKGKSKGK DTKKLIKTDSEVVDRAKANASL WEARLEVTELSRIKYRDTSRIL AKSNEDLKKKQCKMEKDIMSV LSYLKKQDQEKDNMIEKLKQQ LNETKEKAQEEKDKLEQKYTR QINELEGQFHQKAKEIGMIHTE LKAVRQFQKRKIQVERELDDEI NDLLVKEKIMQLVQQRSQIQTL QKKVVNLETALSYMTEKEFESE VLKLQQHAMIENQAGQVEIDK LQHLLQMKDREMNRVKKLAK NILDERTEVERFFLDALHQVKQ QILISRKHYKQIAQAAFNLKMR EHVQEEQNIPKSEHLMAESTAPI V*IRIFWRPKNGHILKEMWILEI *PGSRRKKYCDCSLQK*MAVLL GNTTQSSRPSSRTMLFLDSGET KEFGDESKLQDKIFITQQIAISD VFW*SGATHYSKRTSGV*HSGK SESLQPRGQRLI
14666	45034	A	14752	95	473	
14667	45035	A	14753	168	449	



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14668	45036	A	14754	1	2000	MAFEQAKQVVKLALDLWPIGD GPVELQVTVLDQHANWSLRQE QHGKRGPLQFTDVAIEFSLEEW HCLDTAQRNLYRNVMLENYRH LVFLGIVLSKPELITCLEQGKKP LTVKRHEMIAKPPGQKNWEKQ ALPLTGCLTKYPSWAKNIDIIVT CSHFARDLWPEQSIKDSFQKVT LRRYENYGHDLNLFKKGCEV DECKVHKRGYNGLNQYLTTTQ SKIFQCDKYVKVIHKFSNSNRH KIRHTGKKPFKCIKCGAFNQ STLTTHKKIHTGEKPFKCEECG KAFNWSSHLTTHKRIHTGEKRY KCEDCGKAFSRFSYLAHKIIHS GEKPYKCEECGKAFKRSSNLTT HKIHTGEKPYKCEECGKAFKR SSILTAHKIIHSGEKPYKCEECG KAFKHPSVLTTHKRIHTGEKPY KCEECGRAFKYFSSLTTHKIIHS GEKPYKCEECGKAFNWSSHLT THKRIHTGEKPYKCEECGKGF KYSSSLTTHKIIHTGQQPFKCEE CGKAFKCFSLTTHKRIHTGEKP YKCEECGKAFNSSSLTAHKRI HTGEKPYKCERCCKAFKRFSIL TRHKRIHTGEKPYKCEECGKGF KCPSTLTTHKTLAEIHAGKKPNK *E/ECSKAFKDTALTRHKIIRTG EKPCEFDECRKAFNQLSTFTKY
14669	45037	B	14755	269	1131	
14670	45038	A	14756	2	149	ALFRAGRQECLSLKLCPQPPL SPTCFVPGR*GFYLHFFQRCAA QRGGI
14671	45039	A	14757	2	175	

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14672	45040	A	14758	1523	2667	PLLVHRQTGSGEDLQQTPADL QQRDLLERKLTNRNE*HQHQQ KRHPLKNPTQMSP/CIKDQRYIN PRSTIKLELGKKLTENCTTTWK LNNLLLNDCWEKQERSKTDTL TSQKLEKPEKTSKASRRQEI TKIRAEKKEIGTRKTLQKINKCG SWFFEKINKIDRSLARLIKKKRE KNQIDTIKNDEADITDPMET TNREYYKHLVANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TSSEIEAVINSLPT/KKRSPGSDR FTAIFYQRYKEEL\VPFLLKLFQ TIEKEGLLPNSFYEDSILIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHNNQIDFIP GMQGWFNHKSINVIRHLNR
14673	45041	A	14759	640	1771	APVARMATA/PLFYTALLVFSAL GNILALCLTCQKRRKINCTGIY LVHLAVSDLLFTVALPGRVVC YVLGSSWPFGKGLCRLTAFVL YTDYGGVYLMACVSVDHYPT VVCAGWGPCLRTAGRARLVC VAIWTLVLLQTMPLLLMPMTK PLVGKLACMEYSSMESVLGLPL MVLVAFAGFCGPVGIHLSCYM KITWKLCASTAGRTQ*PAGKDTT GGASPGGPSDQPEKTPAGAAQ EDPVTPTERTPPAGQPERTQ*PA GKDATGGTAREDPVTSRKGRH WRGCLLTLLMLVAVVVCFSY HLNIKQFMARGMLHLPSCAER RAFLLSLQATVALMNMNCGI/D PIIYFFASTHYRKWLLGILKLG SSSSSSSSSTLY
14674	45042	A	14760	1	401	MVLVQWLTAITSFQWETQNK SLQFEDKWDFMRPIVLKLLRQE SVTKQQWFDLFLSLGATLQDSSG PLLTGKLKKKRKVSGTKY/IEAS SATSLKATTDTHHLLLYNPFWI PLTLI*HLCWLQRFA*SCDTPH P
14675	45043	A	14761	184	2720	
14676	45044	A	14762	34	251	
14677	45045	A	14763	2	452	LQIEII*ALEELAAKEKANEDAV PVCLAADFPSAGMGSSCDGQE DELDIKSRAAYNVTL/NFMDP PKIPHLKEKPYFGMRKMAVRW HHAENLVDRPQEESEDDSHLE GRDLDTWHVGVKISWDVKTPG LATPQGDCYFMLGNLWRTKIIL

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14678	45046	A	14764	1	1701	MPFKCKKQHTFNKTSPKEGAI FTHGCLCTSPFNSELSHLGNL KLSSWEHLHHRSQQLSVRLH VPTQPVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLTLHKHGCFLRDLVRIQKG DLLTPVSRILIGNPGCTYKYLNT QLFTGP\FPVKGSNIKHTEA*IA AVCETFLKLNDYLQIETIQALEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLLNFMDPQKMPYLKEEP YFGMGKMAVS\WHHDENLVD RIQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSQEGLI SAFHSRCVHAVFYKLTSAKTT SLPDVPSDLLAEGLAASRAGQA LWRCDDKSLTLVRKINLQKG RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCSRSPWRGLGHL EGNAQKGHLLHGVNKNQGH LRRHGV SIRAGRAPHLAAADT APGRISCLGHSEALKPRIQAGGL GAESIWQVLWEGGSNSSVFCR HDEEPAAELPLPGKQASGGHM
14679	45047	B	14765	16	1462	
14680	45048	A	14766	89	566	MEQGSIIQAWREDALVLTQK GLVSK\SSPKRPHVCHILK\APFC CSCTQHVGQSSSPR*ANPHIRRE STPIAMSDQLQRLQYQFYQIPG TCLLPEVTEKNQGRICMVTDL ETLVHSSFKPISNADCLVPVELE GTMHQIHVLMRPYMDEFLLT*M EEMF
14681	45049	A	14767	1	305	LSGLEMFQAGAGAPSSPGY*GS CWAISWSGPPDKHSNRGASCG LETWAGAAATDTAGPHPAAGR C*A*AGSGGDQGTGSTAPLPAT P*PLQSLV*AAALPA

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14682	45050	A	14768	1070	2653	SLKPCMACL*HS*EKTLSOSSG RSWICAVSF\GSPGAAAAPLPEL SFPLRPGYTKLLPHATEEVSPFG SGAGRKLGPMLPSTAELCPGTR ARWSEGYRDLGRQAQDLQAG RKS VVTWALEGHPREEERAAA KVQQCQRMWEGCSDPQELIPR PGRNPDVPDSAVALLPWGPSR VPDLGPDSEHR/PAHSRVQYWL HKAPAPPSPSPQLAEPATPPTRP SSPGSRSPSSWHRLRSWSLNAD PW\RPRPADLPPGNPAPPSRGGA HGTWGGKDVRLPGRGSR LFSVV CGRREVQRAARRVGTGPGWR APGREREASR*QPPGTG/PASP MGRASSSGSRVSPGPIRRTAPW EGCSCRSRHHWGKGLGPPDGE PG\PGSS*VAQPTVGGRRSLGPG GAAPARDAAAATPPGDAAARE GSGRHLRAPASRPQHQPSPRS HPPASATTASLQKFRSASSEPPS EDRPFDFSTAPPQCPRVAPSAG AR*R/AGGRLPE/PR/RPGPWGG GSRTNLTIPTSLHGPTAAAARTS PHRKS R
14683	45051	A	14769	748	1073	SQHFGPRWVDRLRSGVRDQP GQHDKTPS LLEMQKVIAGRAGG CL*SQLLRRLRQENPLNPGGGG CSELRSGLCTSVWATGRDSI*K KKKKKKKKRKPWSLLSLIVLVQF
14684	45052	B	14770	59	466	
14685	45053	A	14771	2	3184	HRTGIPGSTISSPGGETVPE\MTA AMRERFDRFLHEKNCMSDLLA KLEAKTG VNRSFIAL\GVIGLVA LVLVV\GYG\ASLPLQPLLGFY PA\YISIKAIGE/SPNKEDDTQW/ V*TYWVV\YG VFS\IAE\FFSD\IF LSW\FPF*LHG*KCGFLVGWCN GPEAPSKWGLKLL*QAASSGPF LSLEATKSQIGQVLVKD\LKDQ GPKETADAIH*KKPKKSLP*ILL G*KKKKK
14686	45054	A	14772	14	455	PQFPCRRFRALSEEELDNEDYY SLLNVRREASSEELKAAYRRLC MLYHPDKHRVPELKSQAERLF NLVHQAYE\VERRRTPAEIRE EFERLQREREERRLQQRTPNPKG TISVGVDATDLFDREYEDV SGSSFPQIEINKMHISQ
14687	45055	A	14773	328	479	

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14688	45056	A	14774	15	1095	KVAKMATALSEEELDNEDYYS LLNVRREASSEELKAA YRRLC MLYHPDKHRDPELKSQAERLF NLVHQAYEVLSDPQTRAIYDIY GKRGLEMEGWVVERRRTPA\ EIREEFERLLREREERRLQQRTN PKGTISVGVDATDLFDYDEEY EDVSGSSFPQIEINKMHISQSIEA PLTATDTAILSGSLSTQNGNGG GSINFALRRVTSAGWGGELEFG AGDLQGPLFGLKLFRNLTPRCF VTTNCALQFSSRGIRPGLTTVL ARNLDKNTVGYLQWHCSPPLL QVQRPHRNTRACAPEPSFRPFL HVPTWDAECSGARTPSTAWTS AAVKLREACLSGPGSGSHQLLL LTPRSKRRTGGG
14689	45057	B	14775	508	1765	
14690	45058	A	14776	2	639	GRRRHRRRRHRDCSRGDCYLPT GTNTQQPLPPPPEPLPELPTP DLSMQNSEGGADSPASVALRPS AAAPPVPASPQRVLVQAASSNP KGAQMQPISLPRVQQVPQQVQ PVQHVYPAQVQYVEGGDAVY TNGAIRTAYTYNPEPQMYAPSS TASYFEAPGGAQVTVAAS/SPP AVPFHSMVGITMDVGGSPIVFS AGAYLIHGGMDRPELLANL

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14691	45059	A	14777	1	2091	MKPDDNSTQNEGGQSFEERHE TLQRVKFRGGPKTAPGRKLI AF LGQMNSGTSGGQRVPGEELM AGGATCLPNTAEHQPIRMKNL HTPAFRLCPLTLQDNEADAFW HQA FVDWGMPTGKKPQTLGLT YKTTHDLSMQNS/EGGADSPAS VALRPSAA/APPVPASPQMLPLE LVILGVV/PLDKCIPAQWSKEG QTNSYTYNPEPQMYAPSST/AS YFEAPGGAQ\MVGITMDV/GGS PIVSSAGAYLIHGG/MDSTRHSL AHTSRSSPARSFRSNSKAPSSRK FCC*LPTLSSKTL/SLFSKNLLRK LPLGKHSPDSVQWPWIYGLLV AGSESLASLLFPKASSSGETLGF ATGQLAGESRLPSLLAFILVPID VAWGKEQLVTQTTVYRVQGS GQHLNKA WQEPALVNICGMGE KVDVQVGLCQHRAHLDGWNS SRAASVWPGETLTHHQDQCQA NLPPGIETSILGTKGARYPSPQE QGGGRVWLERLDPRG/AVSGT DL*CLPQSDVPPGRA*SGGTGD KSISTHDKSGRGN SKYHY/YGIR LKPD SPLNRLQED/TQYMAMR QQPMHQKPRWCRAELGGAGSP LGMEDVSHVFPEFPAPD/LGSF LLQDGVTLHDVKAL/QLVYRR HC/EDVV/MNLQFH YIEKLWLS FWN/SKASSSDGPTSLPASDEDP EGAVLP/KDKLISLCQCDPILRW
14692	45060	A	14778	94	3006	RTRSLTRKAMAEHAPRRCCLG WDFSTQQVKVVA VDAELNVFY EESVHFDRDLPEFGHVLDVHG VHVHKDGLTVTSPVLMWVQA LDIILEKMKASGFEFSQVLALSG AGQQHGSYWKAGAAQALTS SPDLRLHQQLQDCFSISDCPVW MDSSTAQCRQLEAAVGGAQA LSCLTGSRA YEFNLVCDRKHLK DTTQSVFMAGLLVGTLMFGPL CDRIGRKATILAQLLLFTLIGLA TAFVPSFELYMALRFA\GL

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14693	45061	A	14779	1	710	MGPAAGAPTSRASRGPRAPALR AAVGRRCPRPEMPCQCHPLAR CGLDPAWTQLPQETAGAPRQD PRCTNQLICEHLPLEGLGFGYL GNKDSLRLHVKVVAVDALNVF YEESVHFDRDLPEFGGLASSAV TQSSS/DDLQQVP*SLQSLHAA* SLQTNASPFTFEHSFLGKRHPK GAGQKRAESPTRPPLRLQEAAAP GELQRPLPYGTQVPAGLCPSVS GLRLRARALLPYRTHSLSV
14694	45062	B	14780	1	252	
14695	45063	A	14781	73	198	
14696	45064	A	14782	762	1080	AGRAEMQQERESHEEAKDPSP LSPREGSQKQQQNVNTSTPSHC PR/PPLRMPPAPRRPVP/CDHPR AEECERKAQHWQAAPPAAPVR DPLGEASWAPESGGDVESLYI
14697	45065	A	14783	1	309	MTKTEREQNEQLDGGGYGERL GEYSLFLLCVPSELNQGKCERV SSYFGMNLSGVLKLPFPPTRE SWPPPHFTGTPHNHHGGVSNG ALGCAQRCSLHHIATNAGGWER GGVSNRLFFLLSASFDAKIK PAPSPIDHLRAEEC*/PPPLSQPP ALVAWCREHLWAHPKAPLLTP
14698	45066	B	14784	1	471	
14699	45067	B	14785	1	1143	
14700	45068	A	14786	1992	2205	WRSMSGLRKRQLASQISYCPC WS\CP*EESHCRVSPAPLA*LL SPCPAPQQRSHDPPPPFPKHFP LPFSG
14701	45069	B	14787	389	973	
14702	45070	A	14788	287	525	TNPFNLLQH*KKP*CYTYISITD PTDACHKNKAFSSPAVSQLT/CI FSSTAGSFFVLSGHSCGHLAVFS LWPRSPQLPGTR
14703	45071	A	14789	475	616	
14704	45072	A	14790	1	704	MTKWKSNPQIHMELQRTLSNP NNLEKSNVKTYKAKIFDDNLI QLTFQQRQDRDTEQEKKEE EREKRKQQQEPLRKKAKMQTV RPGFDLTQGPNCNLTGKTWSR LPPKNHRRPYTSRPEGPRVKA* NHGPEGRRGTRLPPEAAKRAQ AEEAAQ*WPTRSTLRLEVTTPRA MPP\SPSEDPRVAGVHPAPPRGP RSDS/APLRPQLRPPRSLFSLASE PAAAGNARGRHSVLALY

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14705	45073	A	14791	200	408	SPHLMSINLITFANFLFPCE*RNS QFLKS/SIFVMWMIHNGMKCRQ LDTCHCRHGTCKDSICPLEES PLP
14706	45074	A	14792	240	771	GRGMQSPAQVDPAAKRGNIAG HTAHLWPKGGTLPLCF/YHLLI MQIREQP*SSLEYPTF/RILSLVS GTKLNKILANRIRQHIKKLIHHN QVGFIPGMQGGGLTPGSEQGHL RVSPSSPSSTVTLKLFNFMEPFE NLNLSKGKASVHTITQENTDSL KVQGSQFSQGHEKRTLCLKVS
14707	45075	B	14793	1	1557	
14708	45076	A	14794	150	1668	ESDARQGFPLENTRPHPSCMQ NHGICRSLHPGLCGCPPTARDA APATAGGVPAY/GPLTGAPPG* LPGAGIGSKQSSTMGPSGAGSC LGL*APSQPAD/PGSIQGVLVIA DTE*PLVGGDGGLEAEHQWQ* EAGP/GGLIPKHMNPQSRQQSLF GRRGYRDSSLRSVLGRTGQQT* HAELGAGVMGPGGNGR*GH/G PRGLPCLVQGRRGPGVA AVAA GVSVAVPSGMLSENGPGCSK/P HSGDAGQRRGLREN*GVRALI WGAASSFLLTEQDLQELADCL HSGRKTCCFFYFQGRGDVAPGPV APAHHRLAGISTVVPEGPGLCV GEDRQLPG/GNQRAEPPP*LVR VSSLTGLPALGPRQMPNAGAG NGSGK*RGVRGSGPDWDCTGT HGGAGTGKLLWAGLSLFLPSG KSEAHQQAAGHGYGRGLGSP GRPPRSRKGRVLGSESAPA*GSP QPLRSARQKPESSCPQQGPVG RGPGAPLEAGHCSFPRPLGP SLHPDFPQGLQA
14709	45077	A	14795	3	374	RRPPSWG*RGCSQLPECAADGS LEDHGPLPPMVSCFSRHPAGRF LRVFPPSPLAVDCCWHNNNSYV VAVDCCSATCSLLLYPSQEFPP HKFLVYLVLSWHQLLGGLLIC TQQPVNPVVS DG



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14710	45078	A	14796	73	890	MSLVRTDGKVSFPHSRAASSPP PRFAGSLPWTPKGHGFTSFPRL EGYCPS/REGPSDWGRNSFRVSS WAWRPSQGVSHHTPGQGP/PSP GNRDK*VATRKSPGQPGSSPEP GWSLQSTSSPGATRTKGNLNTL KG*KQVVD*WVGVTGWEGS GAPQSPQPSREWRLSPRGVGVV KETWSPWWSGR*APPCPGQPQG QQTHMERGGR*G*QVGACGLG P*GQWSSVTNGKDTRAPWSPPP RQRNGRWPAPPPFTFHYYYYY YYYYYYYYYFFFFGE
14711	45079	A	14797	273	678	TEESTSVLSVNPQTGAGAARIGI VSLRLCGLYVTSPPRAARMHIR PHGPWPGGSHHENGAEAGPES/E GAPASASGRGAPEGQAWPPRD AVLSSLMLALFRTKSARHLVLG TRQTAASPPFFSQPSWYCSLG VDGG
14712	45080	A	14798	551	743	PTRITRSAGSSSWGSCRPRAPAP FSWSRPCLQGPRG*CRGLHSRF YAAP*VQGHVPVHILPYSKF\RRG RAALRPRGQWGLDSVLGTAVC GCGP/RSESDICSGR*GPE/WYIS PPVPPHVHRGFQQL\NCARQVG KGGGGPGCPMLGNH\SSQVGL GLGGQDQDSLESPGRVSSPSGP SAASDPGG*GFQGNPDVHPAP APPDW

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14713	45081	A	14799	705	2299	KREWRPRHHPLGPPRCAGRSA PLSGPASPFS*WLPPGHGPCGR MCSRAARGGDVTYRTHNTRAP SCPSLHWVGERG*DAHTRTPSC PSLHWVGERG*DAHTRTPSCPS LHWVGERG*/GCPHSGLQLSFP PRSAGCCKALFEAEKSKGDTGL GKRGWAGGGAGGAARPCICNP TVPCPQSTQSPPV/PPGTR*QLG SSASHSRAASSPPRFAGSLPWT PKGHGFTSFPR/RGGVLPFPEGP SDWGRNSFR/GPAGPSMW*PAP PSDAQVGHGPGRAGLQRCRGR GGHTPFVLAAAAIDSAYFS**/D P*VFGSNFPHLSCFPG/GCGEGN Q*ARRRPLAGAAALPGPNLES WVCELSVAGPAVWDPVPSP/GD PTTGPESP/RNSAGACGAQGSM R*T*GTPATWSL/GPPPELPGSR HQRQCECGPAHVQRERMPGW ACMLKSVAQRGFQRR*QLSKA QAAAWRV\PGGR/GAGKD*GW RRWGVSRGGGGLCCARGGGGS SVRRGEVEGS/GCARGGGGCAG WRALSPSSLPISGAQELGS
14714	45082	A	14800	1	267	CSAGGPWRAPQPRRFHRRRRP AQLPPPLPLPLPASPRIHNRTF\ PRPSQRTPPPAALGCPEPGS/RS QGRGHARPPGSGEGDPTVSSPG
14715	45083	A	14801	218	430	
14716	45084	A	14802	9	201	
14717	45085	A	14803	1453	1936	EVEKHLCCQ*ELLRAQHN*AA ACRRRPPAPGPQCSAGGPMAR APAPQVPPPPPCSA\PPPLPLPP LPAS/HAHPQPHFRHGRRSALLP RPPWAVRSRGALAGPRTRAAA GLRGGAGAAPAPADARFPASSP AE*PKFPQNSARALTGFPRCTD PTVSSPGY
14718	45086	A	14804	1	580	TSGCSHSLHKPAGVSTRPPTVA SICAPRPRTSPLRRGSLTLWFPF GGHLTLLET\GFDSCPEEVEGP RFSTFKTS*ARGGRRQRCAPRG RREVGPPSAAESGRARGEPPRC RLLCRGGK/DPQPRAGEGEEAAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR CVWGEPPGRRTRLFPDE

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14719	45087	A	14805	279	1148	ALHEFAMSRSLHASLH*S**STC P*QQPAPAPAGEPRARFPGKSSS ASSGPG/WPRNHGKQLHLPAQP Q/QQGRISPRVAGGSGCTGRA LLLAAGLQNSTRSLNPRDPPTIL SHRPLQGM/PDAP/RGCSHSLHK P/SRS/TPLSGQL*PPSAPHAPAQ APSVAGPLPCGLSPGDT*RYWR LLRFDSCPEEVEGPRFSTFKTS* ARGGWRQSRVWASARGASTL QASVQGR*NPPRAGEGEAAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR FLGGCLL
14720	45088	A	14806	765	4270	SQDTPGDLQCHGDL*DGAVLS EAPGGERVPRDD*GGVCPEGVP HVSLLRDSVAEALQPRGEAGG DQVPEAHARPPSAQR*PAGAGL RLHPPAAGGVPGQSGGHLPKIQ DDLTSKS*TNSTITLFPNKVTL SDSGRA*ILEGHRSTQGSGLGLEA DPGTVSHHQHPCPPNAATHHF HRTARPGVQQGPGPASVQQPES DGDGALLRSPCSLLPQGADEVL LPDGDGKQGGPRGRDSESD*G YSERR*AQDEYQGH
14721	45089	B	14807	133	2943	
14722	45090	A	14808	1	814	MEEELLRELLYSENWWSIPYND TIQELCCWAVLKRTFINGNTSR KPGMKMVTGLKKQERRSKQW GCEKEAKFVPDMWIVLEVGRP EERGIDGKRWGKSCSVEQSVW AFQNPIWSKAQTLNLSMK/AYE KGKEGVEEKFEARRSWFMRKK AISHLHNMEMQGEAASADVEA AVSYPEDLAKIIDESDYTKQWIS NVDKTVFYWKKMPSRTFIATE EKSMPGFKASKDSLTPLLGTNA AGGF*LKPLITYHSQTSRALKN YAKLTLLMLYKWNK
14723	45091	A	14809	123	515	PKQSAKTIWTSTARPEDVVTCS FKEEFLPGNTHHDFSINKRSDPE LEVSRPLARPENFPANRSHSLL L/RPCRGRWAAHWTGCSSLLD ASSAPRTDQPSLWRNLPTASLG GPWSHNQPGIVFQNTYLMKWP

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14724	45092	A	14810	279	1136	VDVDLACVRGLLCSCDEFLSW LALNRTVLATPALPSCLSQMAS SLPGLCARTRRGERADSQRGTC AFFSPARTASQAPLVASSVRKQ RVWAPNPLNCHTLPPSRGSQRG GYIGEEGVFGSRVVGIVVPGPN GSPWPLGVQR/PECVLLGVGSG S/SSHSELFSEADFISRL LAPSPSP APAS/MGNAIEEEAPELGPLGRV FVDDFHYDYNFIHLHEDLCYGP LEGPDLDLAGTGDRTPPLHSRP RASLSPSALRCP*ALGF/WTSLA WGSPNSSSRVPEAQPPAPSLAE
14725	45093	A	14811	1	1597	GGRKAAVGVETRPQGSAQPTW LPVHGDCTCTLLLP CRAWWR GGLPWAASVVGAKCVWTPPER GLMLHKPM PGWSSGYRVVLP AVAFFRLRAQVTKLGEEVSLRF LKREAKLCGFLQKSFLALEKR MKASESSRLKLEGSRLGELES WEKLRGLMEERLRALQGQHEE SHLLEQCQGLDAAVAQLTKFV QQNQASLNRVLLAEEKAWDA KGRLEESRAGELAAAYVQENLE AAQLAGELARQEMHGELVLLR
14726	45094	A	14812	150	1625	CLGKAFSCREL NAYLR LPTFFIV FSLRQPSLRMH SRAWVKTCGA MPCSCCIRH C SSVTDM AVRSL ALLQLVNRTPLRRRQISAACQR MSTFLFFRACTF*PRNRSSSGRH /DLTARPRQAILRQNFLK/RAQS RNL TAPNSPR**LLVKTYRQTS RPVSAAH*CPR*RGRAALAAAC HSGSPGARRQTAGPAEGPAR*T RRDFL**RAACLRRRWK WPE*L *RSRSSP*SQGSCPPALPAPRR CSAGSRTGPAARWCRAGAGSR RHAGSSA***SRR*GRSASGRR PRHGGTAGSGRWLWWARCPA *AGIPWPSWPCHSSWP/PQSVRV VSSG*RASLHSPGLDSSGGGLQ SFLLVQLPAQGKTSSQP\RHAA APSAAACPHAE*CTLGSCPRSA TLPSTPPRASPPAG\RSAVSPCPP GHEGVLVSKHHLLLSRSGRG LGGNVVRPCSVQPM DGVGQEL AVADRDQLPCLVCQDGECPK ASGRPVLGCP

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14727	45095	A	14813	921	1446	ACCISHGNLWHHLDQKHGLQS *GEKSRLFSRPNLQVPVHTGLD HRARYLTGPRKQGHLPWTGPS SVFDNENFCKLSVGM*TGRASA RQQIQSPFAESGKAFSDICSVSL RLCVLPHPWNSRLRSPALRNSL KYSVTSSAAARRKLLPLASGPL RLGPRSLPTRLQVLRWEKVASA
14728	45096	A	14814	1	675	
14729	45097	A	14815	1	2341	MASDLVNRCEACDLPQGPISVH QFPRLSNEVTTTVGRNSES PNQ RSVSGPWTPREVRRGVAAAAH GFSGQNAKWAHIPATAMSFA LPYSVLHSPHALTTHPLNPGDA VTMPSTSTVSAANASKGRSFS QCFQSTEEGQERRRPRTSQAKV QQGSTAGKVNELITLAGHIKSQ APHGKRKPPRDSHVICSMLRK RKPDETPSPSSDAQFSGMLAVA VSSLLCPRSSPSQQWHCHSPSTT ILGSSDVSDTSFQPSTKLGPVHG FPPQSRDCILDFELIRKVTGAWS SLTAGSWETKIQEFSEEDILAPH RITPGPHSSKSPVHFLASLWGR KTKLYHHTIQDKEPRSVPEAGS SGRRDGGGAHSMCLMAPEPD HPGSNPNCRSPATLHADADGN LQREAAKCQDGTQVSTHVDH TSAPRQAETGPATGENEKMESH GRSKRGLVGADQCPAETLDSY TLLVGHKKRDKDRQTPGPAPQ VNSFVPENYLLRGPLAPLGS AIS MKTAGAVHIRPSGDLGRAPAP AVRPRPRPPRRPRLLPGPAHLP GAPRPAPAPLSRRAARQSPAA AAAPPPGCE/RRG/PAGPASGAG PPAPAHGARPGGKPAANPPRAP QP*P/RRRRSRRRAQPRGPAPL SRMRAEGPARALRPPPHYQPEL GPPSETVGPVTELLAPIPTARFP TRSHYPVITASPARSS*TSGLD*
14730	45098	A	14816	44	455	HLRNRTR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP

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14731	45099	A	14817	1	279	IQDIGMGKDFMTKTPKAMATK AEIDKWDLIQLKSFCTLKEITIR VNRQTENYPSDKGLISRMLP NF*RLFPAS*KKPPLFDIGKTEK TNYS
14732	45100	B	14818	1	2025	
14733	45101	B	14819	1	3570	
14734	45102	B	14820	1	1380	
14735	45103	A	14821	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIISIDA EKAFDKIQQPF MLKTLNKLELEETT VKFIWNQ KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTD SLFNKWC WENWLAICRKLKLD PFLTPYTK INSRWIKDLNVRPKTIKTLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDK WDLIKLKS FCTAKET TIRVNRQPTKWEKIFTTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYA AKKH MKKCSSLAIREMQIKTTMRYH LTPVRMAIIKKS GNNRHAPFSIH THIMFGSLYLQIQKDLSILGFW YPRGILEPIY

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14736	45104	A	14822	1	1698	MEDEM NEMKQEGK FREKRIKR NEQSLQEIW DYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIQIEIQRM PQRYSS RRATPRHII VRFTKVEMKEKMS RAAREKEIQTTIREYYKHL YAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTA EFYQRQSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNIRPKTIE TLEENLGITIQDIGMGKDFMSK TSKAMSTKAKIDKWDLIKLKSF CTAKETTIKVN RQPTKWEKIFA TYSSDKGLISRIYNELKQIYKKK VTNNPIKKWVKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPV
14737	45105	B	14823	91	1596	
14738	45106	A	14824	1	2757	

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14739	45107	A	14825	1	2677	MGKKQSGKTGNSKKQSASPPP KEHSSSPAMEQSWMENDFDEI NKIDRLLARLIKKKGEKNQIDT TKNDIGDITTNPTIEIQTIREYY KHLTYNKLENLEEMDKFLDTY TLPTINQEEIESLNRTITGSEILAI INSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFQSIEKEGILLN SFYEASIIIPKPGRDTTKKENFR PISLMNIDAKIFNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR KSINVIQHVNRTKDKNRMISID AEKAFDKIQPFMLKTLNKLGI DGYLKHIIIRAIYDKHTANIILNG QKLEAFPLKTGTRQGCPLSPLL FNIVLEVLARAIQEKEIKGIQL GKEEVKLSLFADDMMIYLENPIV SAQNLLKLISNFSKVSRYKISVQ IPQAFLYTNNRQTESQIMSELPF TIASKRIKYLGIQLTRDVKDLEK ENYKPLLNEIKEDTKKWKNI PCSWAGRINIVKMAILPKNWKKT TLKFIWNQKRARIKSIKQK KAGGITLPDFKLYYKATATKTA WYWYQNRDLQWNRTEPSEIT PHIYNLIFDKPDKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPK TKTLEENLGITIQDIGMGKDFMS KTPKAMATKAKIDKWDLIKQE SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRIYSELKQIYKK
14740	45108	B	14826	1	1186	
14741	45109	A	14827	1	2304	
14742	45110	B	14828	1	2995	
14743	45111	A	14829	1	3095	
14744	45112	A	14830	1	3654	
14745	45113	A	14831	1	3189	
14746	45114	A	14832	1	2064	
14747	45115	B	14833	1	3031	
14748	45116	A	14834	1	3192	



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14749	45117	A	14835	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRINKLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
14750	45118	A	14836	1	3144	
14751	45119	A	14837	113	1336	PTLAGTGNQETSHLGFNAIPIKL RMTFFTEL/EKTLTKFIWNQKR ARITKSILSQKNKAGGITLPDFK LYYKAIVTKTVWYQNRDID QWNRTEPSEIMPHIYNYLIFDKP DKNKKWGKDSL FNKWCWEN WLAIYRKLKLDPFLT SYTKINS RWIKDLNVRPKTIKTLEENLGN TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIELKSFCTAKETTI RVNRQPTWEKIFATYSSDKGL ISRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYAAKRHMK KRSSSLAIREMQIKATMRYHLT PVRMAIKKSGNSSRSNIVHSVT QANALESSWIPLFLPHIQYISKP QASSFKMYHVTDPILPPSSQHL DQAAIINLCLQWPLLWFECMCP SKIHMLKLTPQ
14752	45120	B	14838	1	3127	
14753	45121	A	14839	1	2742	
14754	45122	A	14840	1	1998	
14755	45123	A	14841	1	3030	
14756	45124	B	14842	1	2558	
14757	45125	A	14843	1	3828	
14758	45126	A	14844	1	4134	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
14759	45127	B	14845	1	3555	

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14760	45128	A	14846	1	3345	
14761	45129	A	14847	1	3451	HTKNPSVHHHRQRPKVDKTTK MGKKQNRKTGKSKTQSAFPPP KERSSSPAMEQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRN WIKSQDPSLCCIQETHLMCRDT HRLKIKGRRKIYQANGKQKKA GVAILVSDKTDFKPTKIKRDE GHYIMVKGSIQQEELTILKIYAP NTGSPRFMKQVLSDLQRDLDS HTLIMGDFNTPLSTLD
14762	45130	A	14848	1	2606	MVASRSSRVGVFYGGQNSVDG VSRRSDGSLNELCLYRPPTGAY LAYDTLDVLPSCQFTVNTPID VNGKSLALLWEHTSLTSMG GGRWAMQPLGQLGQLEHLGD RRDQVLDGRSGRSRLDAAQHL RHRPDRRPQGMVGVLTNQKEP RTRWIHSRILPEVQGGTGTVPSE TIPDRKEGILPNLFDEASIILPK RGRDTTKKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICKSINVIQHIN RTKDKNHMIISIDAEKAFDKIQ QPFMLKTLNKLIGDGYLKIIIRA IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSAKYINVQKSQAFLYTN NRQTESQIMSVFPFTIASKRIKY LGIQLARNAKDLFKENYKPLLN EIKEDTKKWKNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPM FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLHY KITVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKIHPRWIK DLNVRPKTIKLEENLGNTIQDI GMGKDFMSKTPKAMAAKAKI DKWDLIQLKSFCTAKETTIRVN
14763	45131	A	14849	1	2862	

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14764	45132	A	14850	1	3724	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWENDFDELR EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14765	45133	A	14851	2	2375	
14766	45134	A	14852	1	2376	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKGREIITNCLSDHS AIKLELRIKNLTQNRSTTWKLS NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLTRLIKKKRE TNQIDAIKNDKGDITADPTDRQ TTIREYYKHLIYANKLENLEEM DIFLDITYTLPRLNQEEFESLNRP ITRSEIVAIINSLPTKKSPGPDGF TAEFYQRYKEELRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMFTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDIDQWYRTEP LEITPHIYNYLIFDKPEKNKQW GKDSLFLNLWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKLEENLGITIQDIGMGK DFMSKTPKAMATKDKIDKWDL IKLSFCTAKETTIRVNRQPTK WEKIFTTYSSDKGLISRIYNELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAAKKHMKKCSSSLAI REMQIKTTMRYHLTPVRMAIHK

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14767	45135	A	14853	1	1576	MDKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQRLISNFSKVSQYRIN VQES\QAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYQYQNRDRDQWNRTEP SEIMPHIYNYLIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKTLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAAKKHMKKCSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPERQNHSL WKGS*SQEPSGLAQWIPLPWSP AS*DPLA*NSCCQHSLKSTWD AQACARKLRTLKGYRNCQLE
14768	45136	B	14854	328	1467	
14769	45137	A	14855	3	3412	
14770	45138	A	14856	1	2907	MDKFLNTNTLPRLNQEEVDSL NRPITGSEIVAIVNSLPTKKSPGP DGFTAIFYQRYKEELRIKYLGI QLTKDVKD LFKENYKPLLKEIK EDKNKWKNIPCSWVGRINIMK MAILPKVIYRFNAIPIKLPMFFI ELEKTTTLKFIWNQKRALIAKSIL SQMNRAGGIMLPDFKLYYMAT VTKTAWYQYQNRDIDQWNRRT EPSEITPHIYNYLIFDKPEKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence ( X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14771	45139	A	14857	1402	3004	TEPKTKTT*LSA*MQKGPLTKF NNPSC*KLLIN/IVLEVLARAIQ EKEIKGIQVGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNILCSWVGRINIVK MAILPKVIYRFNAIPIKLPMFFFT ELEETTLKFIWNQKRARIAKAIL SQKKKAGGITLPDFKLYYKATV TKTAWYWYQNTDIEQWNRTEP SEIMLHIYNYLIFDQPEKNKQW GKDLSFNKWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKTLEENLGITIQDISMGK DFMSKTPKAKATKAKIDKWDL IKLKSFCTAKETTIRVNRQPTK WEKIFATYSSDKGLISRIYNELK QIYKIKTNNPIEKWVKDMNRHF SKEDIYAACKHMKKCSSSLAIR EMQIKTTMRYHLTAVRMAIHKK SGNNSLIVGASMDTSLLSGPIPY DIQHFDREFSVTVRRGCAIEFY

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14772	45140	A	14858	884	2925	GIKYLGIQLTRDVKDLFKERS/Y EPLLNEIKEDTNKWKNI PCSWV GRINIVKMAILPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR ALIAKSILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI DQWNRTEPSEITLHIYNYLIFDK PEKNKQWGKDSL FNKWCWEN WLAICRKLKLDPFLTPYTKINSR WIKDLNVRPKTIKTLEENLGITI QDIGMGKDYMSKTPKAMATK AKIDKWDLIKLSFCTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYA AKKHM KKCSPSLAIREMQIKTTMRYHL TPVRMAIHKSGNNSPTCVSQD WKLTQAVGLWSAEAEAPKSAQ RRPLAEGHRAAVQRDGSGLQL LCTVKLQVLPCIIAQGNNGRKA TSSLEAELTSWRPLCLEDGTGF RGEDTLETVNAEGRENRRKAG HRAAGSSASRRCRNTGRSVQRL RPQKTQAFPTHCHFCLILVVKA TQLNPKSRVRKVPFAPMKHGK ALAGPWANICAGKSSNEIRTC RHGCGQYSAQRSQRPHQGVDI LCSAGSTVYAPFTGMIVGQKEP YQNKNAINNGVRISGRGFCVK MFYIKPIKYKGPIKKGEKLGTL PLQKVYPGIQSHVHIENCSSDP
14773	45141	A	14859	1	2577	

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14774	45142	A	14860	3019	5574	RETRGEVKNSKNQSTSAPPKDC SSLADPKKIQTIREYYKHLYPN KLENQEEMDKFLDTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLKLFQSIEKEGILPNSFYE ASIIIPKLGRDTTKKENFRPISV MNIDVKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNHKS NVIQHINRTKDKNHMISIAEK AFDKIQQHFMKLTNLKLGIDGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKIGTRQGCPLSPLLFNIV LEVLAIRAIRQEKEIKGIQLGKEV VKLSLFADDMMIVYLENPIVSAQ NLLKLISNFGKVSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRINIVKMAVLPKLPMTFFT ELEK\TTLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYYKAT ATKTAWYWYQNRDLQWNRT EPSEITPHIYNYLIFDKPDKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NIRPKTIKLEENLGITIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKQESFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYSEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYA AAKKHMKKCPSSLA
14775	45143	A	14861	1895	6140	
14776	45144	A	14862	1	2875	MKAIEKVVFFETNENKDTTYQNL WDTFKAVCRGKFIALNAHKKRK QERSKIDTLTSQLEKEKQEQT HSKASRRQEITKIRAELEIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKREKNQIDTIKNDKG DITDPTEIQTIREYYKHLN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPTGAEIVAIINSLPT KKSPGPDGFTAIFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14777	45145	A	14863	2843	4460	HQHQQKPHPHRNPIQKSPTS KT KVLEVLARAIRQEKQS/GIQIGS QEVKLSLLEDDMIVHLENPIISA KNLLQLISNFTKVSGYKINVQK SQAFPYTNKTQIENQIMSELPFT IATKRIKYLGIKLTRDVKDLFK NNYKPLFKEIREDTNKWKNI PC SWVGRINIVKMAILPKVIYRFN APIKLPMFTFFTELEETTLKFIW NQKRARIAKSILSQKNKAGGIT LPDFKLYYKATVTKTAWYWY QNRDRDQWNRTEPSEIMPHIYN YLIFDKPEKNKQWGKDSLFNK WC*ENWLTICKRLKLDPLTPY TKINSRWIKDLNVRPKTIK TLEE NLGITIQDIGIKDFMCKTPKA MATKAKIDKWDLIKLSFCTA KETTIRVNRQPTKWEKIFATYS SDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMAIIKSGNNRC WRCGEIGTLLHCWWDCQPVQ PLWKSVMRFLRDLELEIPFPAI PLLG IY PKGYKSC
14778	45146	A	14864	1	8335	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSA MEDEMNE MK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS
14779	45147	A	14865	1	3166	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDISRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCKRTEITNYLSHSA IKLELRIKNLTQSRSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYQNLWDAFKAVCR EKFIALNAYKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAE LKEIETQ
14780	45148	A	14866	1	3912	
14781	45149	B	14867	1	2832	



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14782	45150	A	14868	1944	3531	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARMAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQDQWRNTEP SEITPHIYNYLIFDKPDKNKQW GKDSL FNK WGWENWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKTLEENLDITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCQMRKNTK TLI
14783	45151	A	14869	1182	3891	KMIKGISTTDLTEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPIITGAEIVA IINSLPTKRSAGPDGFTAIFYQR YKEELVPFLKLFQSIEKEGILP NSFCEASIILIPKGRDITTKENF RPISLMNIDAKILNKILAKRIQQ HIKKLIHHDQVGFIPGMQGWFN IRKSINVIQHINRAKDKNHMISI DAEKAFDKIQQHFMKLTNRL GIDGTYFKIIRAIYDKPTANIILN GQKL
14784	45152	A	14870	997	1161	CTSTVIMSICTKLQNKEHVIEAL RRAKFKFPGHPK\HISKK*DFT KFNADEFED
14785	45153	A	14871	1	1458	
14786	45154	B	14872	53	1468	
14787	45155	A	14873	1819	2235	

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14788	45156	A	14874	707	1613	VRARAGERARVVRENGKAELP VALVLP SRALSHTFTCTDLKVQ FHQRLRLQEKSGKFIGSNMSQE SDNNKRLVALVPMPSDPPFNTR RAYTSEDEAWKSYLENPLTAA TKAMMSINGDEDSAAA/HRPAL *LLQENQSEPIPREGVGWG*GE ER\ERMTEEEQEGEGGGGGRRGG GEGEEEEEEEDVEEEEEEEEE EKEEEEKGGEKEEENEKEKQR EGRRGKETSNGQMVRPRLPP HQEHSRNYLVFIMDSNMIEICF REASISPKAQAYVLIPDFKNCIY GWEEDSIEILWGLPGSHVL
14789	45157	A	14875	3	346	QRSKSCKVPLGKPLTLPPKPE K\PQGQKDRRPTGFKP*N*RRRR SEKSLRFFPPGS/PQAVPIPVGFS FDTNL*HFL*KPLIFIMGGTVSL PHPRSPSAPPGTPQRPMTFCHLK Q
14790	45158	A	14876	1868	2666	GLLLSPFQGLQGVA PRKTRSNL HPGSLAHL SHQPPAPWPPRGLW PPGQETSCHCASGRALGTGSPR PPHAPWLHLEPQRAPHSGAPSP GSSPSAPLHIPVAPENLQSLGHR SPPNPSGPD CYSPSPGP/PPSSLD SPGLQTAPGAMFLSPRSGVQSA CPTPRSLDLRNSPASTPDQSVCP TPLSLAWLWPPPSPTSAKSLLFT LTSEVQSFSPTPIPPGSSDPPLSK QP\SGSCLSSSGHLTSPSPVRHSP WPRSSQNPHSWTLPS
14791	45159	A	14877	762	1528	AIPGGAAWPFRAEGAQGPGR LTFKPLGAQRQSVSGGSEVPPL PLHLKMAPEMPVAL*SPGTGV HPSLLPPT/GPKVPPGRIDRGVPV TLAPQVGTA PIQWHCRGSRCP G/SRPPGGWR/RPCQAPAPPLGQ HLPRLLPPPTGPQGRPLTPSEP PPWSCWLPASPPAGPGSRRVGG GPGTCQGLLRS*GLLLSPFQGL QGVAPRKTRSNLHPGSLAHL SH QPPAPWPPRGLWPPGQETSCHC ASGRAVGTGSRRPRA

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14792	45160	A	14878	1	963	MARKDCCSPPGDSSPGRPLPLVL PAQCLVLLRLQITAFSSIHVAAN DMMSFFLMAKQDSIAYKYRIFF IHSSVDGHARPLSPSLVVENGC GKQVFLLCSDNASPEVSTVALA SCPGTFPRHCGAAESTHICATG LGELTPQGHGHIPNKLACCAT GLEELVPRDHGKLGISWFGFIA GAYLNLARVVGECQGSYGYLS LHHYCYCHYYHYCHYHYHAA TY*NHYHYHYH/HHNNSYHHH SYHYHSHFYHYHYNCYHHH YHCRHYHHPHDYYHYHA/RHY SLYYCHYLCHYYRCYHDHSS HQNHNHECLP*VRHSAEHLQY
14793	45161	A	14879	105	1448	CHQPPASPFSRREPGESEKPPER GCPAWEPAAQGPVQPLGEDGP RLCQPPPPSPDHALGPYGHQRS GRPTLPGPRK\PAKKRGR*PSSS TGQ*SHRPTTGTGGQAGGSG* VTAGGQ*PPQNL*AKISCEMP GPSPGMQQGVKHPSLFSHQT AKGFTTRWNCRQVCPHRGERK WISSVRPCGGALAPSCA/DGLR GRRTLSGSQPLW/PPAAVSAVG QLQPPCHTLTPHPLQNSTQHAE PQRGSVYSL*EGTSP\AAVPFA PHIEKRPFSTFPAGDA*PSEAH/ PGPACCHSPGGLEGPVSRAGPG TSAGR\PGNGRERAWPPHSGPS TPPDTSCG/SPGPQLARAGSRR NGSTLPPTRQGFLPGRKDSAGA CGQP\*AEGAAAGPSRSPAAER AVLPLPR\GRRKCRGGGPGVET GVSGARRGGDRSGCSPAALDA EAPASLAGVSIREG
14794	45162	A	14880	1	2421	

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14795	45163	A	14881	1080	2571	VHCRFWILALCQMSRLQKSPLL FNIVLEVLAKAIKQEKEIKGIQL GKEEVKLSLFADDMIVYLENPI V/SAQNLLNLISNFSRVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTKKWK NIPCSWVGGRINIMKMAILPKVI YRFNAIPIKLPLTFFTDLERTTL NFICNQKRAPTL PQVQSLS\QKN KAG\GIT\LPDFKLYLQGLQ*PK TAWYWY\QNRDIDQWNRTEPS EIMPHIYNLYLIDKPWEK/HKQ WGKDSL FNKWCWE\NWLAI CR KLKLDPFLTPYTKINSRWINDL NVR\PKTIK\TLEENLGIT\IQD\IG MGKDFMSNKTPKA\MA\TKAKI DKWDL\KLKSF\CTAKETTIRV NR\QPTKWKKIFTTYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAACKHMK KCST\SLAIREMQIKTTMRYHLT PVRMAIHKSENSRCWR
14796	45164	A	14882	136	420	RESRNL SRGEESDPAEPS\ RNG *EHPLCYLQ*EFLQVLTMLQAE GTMHHFRSICQVNRNFLERGH/ SPPSPAPPETHTGSPRPPSGRSR IRAYLH
14797	45165	B	14883	1	1197	
14798	45166	A	14884	3	538	GAGTDGGRTPAPRAFPDPLGEA RTSAPTGPARGGSASAARPA VRPAEPAAEETQEOPRAGKRAI HEYRYVYVQRRKTDQPQAVA VFGIPADGD*VSRTAYHAHQPL AWSGR/E*MCLSMAMWNT*ST MKK*ISIRVISRCSGPVHRTN*QI PEPVRAWRFLICRCICFSPGRWI KT

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14799	45167	A	14885	1208	2765	KMAPTWDKMVSSAQMGFNLQ ALLEQLSQDELSKFKYLITTFSL AHELQKIPHKEVDKADGKQLV EILTTHCDSYWVEMASLQVFEK MHRMDLSERAKDEVREAALKS FNKRKPLSLGITRKERPPLDVDE MLERFKTEAQFTETKGNVICL GKEVFKGKKPKDNRCRYILK TKFREMWKSWPGDSKEV/RGY G*EIQDADPIQQPQGASRALPY TVVLYGPAGLGKTTLAQKLML DWAEDNLIHKFYAFYLSCREL SRLGPCSFAELVFRDWPELQDD IPHILAQARKILFVIDGFDELGA APGALIEDICGDWEKKKPVPVL LGSLNLRVPLCIENKLGVGED WGDQLRVYWWNPSKREGGSG WSHGSEDANQSLKHLRLSANV LLDEGAMLLYKTMTRPKHFLQ MLSPWETTLAQIIMLDWAEETS SDKLKYAFYCSCRELSRLCPCN FEELVFRDWPELQDDIPHILAQ ARKILFVIDGFDPLGGRTLWTL TRGHLRELGNRRKRCPSWGV
14800	45168	A	14886	213	625	EPGIDTSCLCAGRCRPGKGRA CGGSSPCSWPGQPPAPAAAAY PACPSGGRGAGPIQSGTCCSRS ADSRCTSWTAW/WPPGLGAAT VQTVMS*TV/WPMPHVQPAGW LALQGGAATAKHPLTSATTRS WCLGVGPGPWM
14801	45169	A	14887	1	375	MCNAQVLEYMGKSSSLTSDL QLVRDALRSLRNSFSGHDPQHH TIDSLEQGISSLMERLHVMETQ KKQERKPPLVIPRQT/WVWSGP PANSNRPAAGPDC*KEN*RDA LRSLRNSFSGHDPQHHTIDSLEQ GISSLMERLHVMETQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL

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14802	45170	A	14888	1	750	MGELNQGSWRQGHLPDAAN GIAIRVPRRRKDESRKNPTRKPH SWKPTKNFEDDVEVMKRSMISI RIEDTHSGPSAAGVLEFAGGPL QTLFAWVSPAEEAEQQRLLPVP /CLWKLCPRGAPARC\RQNSPSK LPSGFVYTVRGKLPTQASVVVD APPATKLECPRSTSDCCAGSKN FKPVDLSLLASVGPRVNLQVES SHYGKISVTVAGHCPTHATGRI LGKQALRWSPMCSMFIGRALG LVPVEGGLLQIA
14803	45171	A	14889	81	164	VGKQGLEWTPANSSRPAAEGP DC*KEN
14804	45172	A	14890	1	674	MVVYACSPSYLEAEVGGSLSLE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFKYFGI YLTKEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/VVWSGPPANSNRPAAGPDC QKEN*QTERNSINIKKKDIHTKT PLCI
14805	45173	A	14891	619	931	YLLMDFPLLHSLVSLGDKVP HEFWRGCPSCSFGPRFWVAGV LVL*APKL*LRQVRSAGKRCGQ KW*IK*/SDRLCVD*NK/WSDSD LKPATSCSLIVTCHSLLG
14806	45174	B	14892	1	658	
14807	45175	A	14893	48	288	LCSIKKPEKSLLCW*YPGNRVW SGPPAKSNRPAAEGPDC*KEN* QTERNSININKKDIHTKTPSEGH QHQRPKTKPGRI
14808	45176	A	14894	801	1157	QSGPSAAGLLDFAGGPLQTLFA RVSPAEEAEQQRLLPFPSSGKL RPRGAPARCQPELSCMRCR*SL LGGVSQSGYMGVRDPFEEAAC PLSELECSAGRSAALLRMVRQG HLGLLKLRP

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14809	45177	A	14895	1	1891	MPVWVTVVKSWNTQIGRPGH VSALGFELTKNPWPLTYESGDG RSLGKPGAVSRRGGRHGHPHQ QAECDLPAAGRIAGPCERGLERQ EKLPPAPQGGAWHLRLSRERFK SEDAPKIHVALGGSFLNLAFL LVNVGSGSKGSDAACWARGA VFHYFLLCAFTWMGLEAFHLY LLAVRVFNTYFGHYFLKLSLVG WGLPALMVIGTGSANSYGLYTI RDRENRTSLELCWFREGTTMY ALYITVHGYFLITFLFGMVVLA LVVWKIFTLSRATAVKERGN RKKVLTLLGLSSLVGVTWGLAI FTPLGLSTVYIFALFNSLQAHKQ LKDRKVGPHFMQGAVFLEGKF WGVDIASFEPQEQFWWTNLGK EDEDKSFDMPHSWVEQIEISPEE EAMGSAQMVRGVSGPERGSKK RPQLTVSTAFETRCPNGKKVIQ YKRAKLEKWAPYLNSNGLVSR LTTYEDLQCTNILEIKEWYQNR EDMLELKHINKTTDLKTDYFKP GHPQALRVHSYKSMQPEMDRV IEFYETARVDGLMKREETPRTM TEYYQGRPDFLSYRHASFG/RPS QEAHSEQCRVKPPAHCAKPAE DDV/RKSACFWSSRSASSCATT AVRTTSRPPSASSCGAPRWTA
14810	45178	A	14897	1	425	HVQQTEISRTVSTGSPHILSCSVP VTLPNGPVLWFKGN/AGPNRKL IYNFKQGNFPRVKEIGDTTKPG NTDFSTRIREISLADAGTYCYV KFIKGRAIKEYQSGRGTQVFVT VSYSSRSQKSEICISGLKSRHQQ NCSFWRF
14811	45179	A	14898	1	393	RQGNFPRAKQIGDTTKPGNTDF STRIREISLADVGTYYCVKFIK RAIKEYQ\SGRGTQVFVTEQNP RPPKNRPAGRAGSRAHDAHT CLSALPERNSTNYFVQPCCLLR LLGLTGFAVKIIQTGKERTSK

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14812	45180	A	14899	1	753	MGSSLSPVLYVALPVRQPLLRSVVEERSTKMRVGSPGFQAKFRFYSQLSWSARGEGLVPFWLQPYPRPLNFKAEMTEQKENQTYVDGGFRPYIHRRKNLTEGHKAEEKMEPWDGFSDESCRTHCQVHDYAKGHGEVQREVRDEQKEHLGGRRQDCQQHLNRRRLHC/TVSGEAPSEASGVRGHGRAHGLAGSERHGHDAAPHEQLLQSVADADHVVPVAWYQFWDDEGRGILSPGDHKPDRRGAAALY
14813	45181	A	14900	6	726	VEGISRTGIQAEQAPGFTTMPIPVSVNPGDVLTLACNMSALSPEGPVLWFKSIGPGQQLIFSCNGSHFPRVTPVENTMVDQTDYSIILSCSVPNTLPNGPVLWFKGTGPNRKLIYNFKQGNFPRVKEIGDTTKPGNTDFSTRIREISLADAGTYVCVKFIKGRAIKEYQSGRGTQVFVTGEYVSYTPYPLVYNS\PLWDEASRGRSRQQSLLFCSLHW*YPRKQDLEWTSSKLQQTCCRVA
14814	45182	A	14901	760	978	KKLLLLLLCGIEWHGFSSDSGSGGWVPEG*K*GCEHELLPEDVPSCFGWAECWLVRRTLPLFHYVELCYSFHG
14815	45183	B	14902	772	1165	
14816	45184	A	14903	1	2133	
14817	45185	A	14904	1	1311	MATTPGRALGSLLPTLLLGLTAGQPFISLTGPSHRTSPGDSVPFNCTAVPFNSQDFSRDFNVTWLKDSDEHPASAQRLVPDNGGNDFITSKAWVTLTRQDVSSEITCEVTHRALAEPLKTTMNLSQLATRNPDGTYSLEHTWQAEATLEEREFACWVVHDEQPPLKANVTQLAQVRRQKGQSVQPYKLQGPLQRSEPGTRIRLTASSGFSTHQVTVTWLKNKHELPPNPQTSVQYSGHTYNVTSSVLVPLMDDDVFSHV VCHVEHKLTWFFQKTTGLDQYL/QG/DP*QLCGHLTLPSAPRAPQLPGLQHP/VVFHSQVLLFSCLVAVTCLVQRFYPQNVHLAWLEDCHTLKGTEQPTLKKNNDRSYTLEKLLLVNASVQGPVRLTCMMEHEGQPPKRANLVLSTAAHTAYKPIGSTESIMVTMIITISQM



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14818	45186	A	14905	3	341	RRATRPGN*GGRHNAGRSSARL ETGRPAMAPQGRPRPLGCRTPQ HPGHWPSAPGLLPAPGPVAG MTQAQRWCPEPDAHFLQYTLY FVRHIPQLPKQTPHHYIATRLPC ATQ
14819	45187	A	14906	154	679	GVCCPLLGGVSS*ATWGS GTT* GGNTHLI
14820	45188	B	14907	1	2554	
14821	45189	A	14908	387	826	ARAACLPRGSARGTAGAGEEPP DPAPLHLRGEGPAP/HRPRSPRG MGWPAAPSTRSPST*RRCLPP RPRWSP*SHPGPRASARRLP*LS *RASRSSEAPSPGSLGSVAGQD CSRTGTGFSPAPFSDGQQT PPP APSSVPTLNSLG
14822	45190	A	14909	86	2223	GQEPQVREQKACHHLGSSPPPS WEL*EQRPAGP*N**PSTLTGT GSTTT*QIRMKVN*MGN/DSPQ GKNTPKMYSGEFSPVRVHVPFS LSDLKQIKIDLGKFSDDPDGYID VLQGEDILAKAGAIRHLNIGEG THVCCPLLEEGINPEVWATEGK YGRAKNAHPIQVKLKDSASFPY QRQYPLRPEAQQLQKIVKDL KAQGLVKPCSSPCNTPI LGVQK PNGQWRLVQDLRIINEAIVPLY PAVNPYTPLSQILEEA EWFTVL DLRDAFFCIPVHPDSQFLFAFED PLNPMSQLTWTVL PQGFRDSPY LFGQALAQDLSQFSYLDTHVL WYMDDL LLAARSETLCHQATQ ALLNFLATCGYKVSKPKAQLC LQQVKHLRLKLSKGTRALSEER IQPISAYHPKTLKQLRMFLGIT GFCQIWINRYGKIARPLYTLIKE TQKANTHLVRR TSLQP VAYLS KETGTSLQP VAYLSKEIDV VAK RWP HCLRVVAAIAVLVSKAVK MIQGRALTVWTS HDVNSILTAK GDLWLSDNHNEEKIEHNWQQV IAQTYAAQGD LLEVPLTDPDLN LYTDGSSFVEKGLRKAAYAVFS DNGILESNPLTPGTSTQLAELIA VTQALELEGKREPENPADNASY SCEPLEDLRLLFRRQPIEAVKLQ MVLQMEPQM QSM TKIYRGPLD WPASPCSNVDDIEGTPPKEISTA

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14823	45191	A	14910	929	1324	RRYQVQRPSEGLVYLFWPV*/ PVVGVDPLPTGPDVYSLLVPI PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPCPSCTPMFHS PCSAMTAVTPSLARP*THGSPP KAQGAPQGVKGPSSGLEAPPW A
14824	45192	A	14911	2	286	
14825	45193	A	14912	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DSPQKNTPKMYS GEFSPVRVHVPFSLDLKQIKID LGKFSDDPDGYIDVLQ
14826	45194	A	14913	1	163	EPENPADNASYSCEPLEDLRL FRRQPIEAVKLQMVLMQEPQM QSMTKIYRGPLDWPASPCS*DF LGRGAFNVINIGAWASRPVQGS AVDLSHGLHLGLHLKNHL
14827	45195	A	14914	1	287	
14828	45196	A	14915	2498	2788	
14829	45197	A	14916	112	333	
14830	45198	A	14917	329	1666	
14831	45199	A	14918	1	756	
14832	45200	A	14919	1256	1651	RRYQVQRPSEGLVYLFWPV*/ PVVGVDPLPTGPDVYSLLVPI PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPCPSCTPMFHS PCSAMTAVTPSLARP*THGSPP KAQGAPQGVKGPSSGLEAPPW A
14833	45201	A	14920	1	987	MLVLGYNRKNTGQTQKQKGT NASDFHFLSQVLEQVSPKGSK EAQCCVLRHLGCESSESAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLKGKERR QREGERRERKREKREKRESQR KERKREKKGKKREREKDRSDL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYLTWRDIMLLLDQTL TPNERSAAITAVREFGLWYLS QVNDRKITEEREQFTGQQA VP SVDPHWDTSEHGDWCHRYLL TDVLEGLRKTRKKP\IN*SMISTI TQGKEENPTAFLERLREALRKH
14834	45202	A	14921	473	1015	
14835	45203	A	14922	3	937	
14836	45204	A	14923	530	612	LQAKVFFLLRWPAILRG*NYGP RGVPH
14837	45205	A	14924	101	430	

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14838	45206	A	14925	1	1587	MAALTLRGVRELLKRVDLATV PRRHRYKKKWAATEPKFPAVR LALQNFDMTYSVQFGDLWPSIR VSLLEQKYGALVNNFAAWDH PGDIVLDLCAAPGGKTLALLQT GCCLTWSRKRCALSMFSRPA RCLCRARTTAPRAVRRPDQRR ATAAATKQQARATPEAPGSAA HSSYCTMIPSACCCLPRQLKPPH AQPARSAAPGLDQPGSHARL RGRGGEARQSLEAIRGGPSGIA PSDIPLPAKPSRRVIAQTYAARG NLLEVPLTDPDLNLYIDGSSFVE KRLRKAGIKAVKLQIVLQMEPQ MQPMTKIYCGPLDQPASPRSNV DDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLGKFSDTPDGYIDVLQ GLGQPYYL TWRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMISTI TQGKEENPTAFLERLREALRKH
14839	45207	B	14926	1	939	
14840	45208	A	14927	1	4317	MQSMTKMYCGPLDQPASPCSN VDDIEVKLEIMLLTERDDGKEV LDVGEERRYIEEYDSKWTRK YNCLAVLRVHSGSQITTMKLIL WYLVVALWCFKDGKIAASRS GGFSYGSSSSGDLDRKKPLFSL EFGSPGETEDKSRQRQDAGSPK SEDTPAGGFFNSSSSGSDSRTK PFFSLGLGAPGKAEDKSGDSQD AGGSKSEDTPPGGFFYGSSSSG DSDKKKPLFSFEFGATGEDEDK SRERWDAGNSRSEDS
14841	45209	B	14928	110	269	
14842	45210	A	14929	1	561	EVFPACSQLVYWGKPITYPLCE NNVYMLSPNASVCLYSPALAEQ FSHQFPSHDLPSVLAKFSLPVSL SEFRNPLAPAVQETQLIQMVV WMLQRLLIQLHTYVCLMASP SEEEPRPREDDVPFTARVGGRS LSTPNALSFGSPTSSDDMTLTSP SMDNSSAELLPSGDSPLNQRMT ENLLASLSEH

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14843	45211	A	14930	1891	2522	GLSNQNNQPGRCIPDAHPVQDL VQDLVHTWCRVPCTSYVPCV* VPGAYLVHTRCIPGAGPGAYPV HTWCRTWCIPGAGFPAL/RPYH ALLLSDEKSLLGELPIDCSPAL VRVIKTTSAVKNLQQLAQDAD LALLQAMGSAVA\LVMWAWP RATGPLKYCLRVGAGGACGWR PRLVAVSRALLVWRCGSPWG PALAWQKSPEYSTKVLEKQ
14844	45212	C	14931	113	274	
14845	45213	A	14932	1	1634	MEIPAVILTVAPILHLTSCGFPV TGDGLKQAEKGKCAPEEWNPTK FIKLTDNQACFACGLWPLSEIQ RRTSRTVTIISRISALREKGNR KPTSISGSVNEMRQVLVKDQVS MPRVLPITIIFVPDEAGFSAGAV WPCAAPLWGSSWTPKVENCS FYIRLSFAISVGGDELKIAKLVS AFPERAYDLVGHQHQRPKVDK TTKMGRNQSRKAENSKNQNMS SPPKEHNSSPAREQNWMEF DELREVGFRSVITNFSELKEH VLTHHKEAKNLEKRLDEWLTR INSVEKSLNDLMELKTTLREL EAYISFNSQFDQAEERSVSVIEDQ ISEIKQEVKFKREKRVKRNEQSL QEIWDYVKRP\NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QANIQI/QGKLQRTPTKVASSRT ATPRHIISVGSPKLNK\EKILR AAQRERSGLPTKGKPFRLTAAD LSAETSTSQKTEWGPIFNILKEK NF\QPR\ISYPAK\LSFISEGEIKYF TDQAKCLRDFVTTTAFSCLP*K STRPALKELLKGST

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14846	45214	A	14933	1	1429	MVLAAGDPVEKGITWARENAG IYISCTMMKLSMIPIGDQSYRNL IPLKFVACILIEGNAKCWPLPEF DPSQIRLIVYQDCERRGRNVLF DSSVKRRNEDISVSRIKYLGIQL TRDVKDLFKENYKPLLNEIKED TNKWKNIPCSWIERINIVKIAILP KKLGSDAQVKVFGKCCQLKPG GDSSSLDSSVTSSSDIKDQCLK YQRTVDLSAQLSSSGKGQTTSS SGSLTPMTPHWEIPPSGGQOTS HTGELRLASGRGSSGMKLPEEG TDRNLCCSAASSGDTQANRDW SGPPANTSRPAAEGPDCDRENG TKLENTLKDIHENFPNIARQAN IKIQEIQRTQQRYSRRATPRHII VRFTKVEMKEKMLRAAGEKH WVIHKGKSIRLTVDLAETLQA RREWGPIFNVLKEKNFQLRISY PAKLSFISEGEMKSFPEKQMLR DFVTIRLALQELLKEALNMARE /NR*QPLQKHM
14847	45215	A	14934	2320	2811	ESKLTRGVKDLFRENYKPLLNE IKRGHKQMEEHSMMLGRKNQ YREKWPYLPKVNL*IQCHPHQA TNDCFHRIGKKLL*SSYGTKKE PALPSQS*DKRTKLEASHYLT NYTTRLQ*PKQHRYWYQNRDI DQWNRTEASEIMPHIYTILILWT NLRKTSMGERHP
14848	45216	A	14935	2	872	
14849	45217	A	14936	769	828	
14850	45218	B	14937	1	669	
14851	45219	A	14938	1	807	
14852	45220	B	14939	35	212	
14853	45221	A	14940	235	837	QQAHKTPQRRHSFTEYVRNN RLPETVIRVKQPALAIFSPDIAPL FVHFRADDDVTARVIHAIIMIF WCDRVEKRVSDAVACFTLESEI AEVGVLCRTHIRQ*RQVTPARM *ALSRILHACRSEDVRHNRPPYP VIRVKQPA\RRDLAPT*PHCSSIS AQTITSLPGCMREVT/ELRPEFF K*RKTVLRPTPIMRARAERRCK
14854	45222	C	14941	1	1755	
14855	45223	A	14942	1	747	
14856	45224	B	14943	1	2466	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14857	45225	A	14944	1	333	LNLVLFQQRAELMIS*PQ*FSRA LLVIFPLLQTELQQLFLLHVNP AAVEAPPSVPIGLYSENVNRNR LPETVIRVKQPALARFSPDIAPL FVHFRADDDVTARRVEKRCK
14858	45226	B	14945	1	1794	
14859	45227	A	14946	1183	1899	LNRRDSYVEYLADKVDREED ABEYLEAIMEARVTVAGMGLV MEVQDYFDGEADRLAKAWLA EYTPQIKSLKDERKEAYRQIVE MSTEPQDVDLVRPANKFEMTR VREGEKEADLPVWKHHL/SV*R KRELSGSVEPLGNQVFEIETKRE NS*EL**KSLKDERKEAYRQIVE MSTEPQDVDLVRPANKFEMTR VREGEKEADLPVWKHLLCDE SGNYPALLNHWETRFLRSKPN VKIHRSSDKSPTYFVFISQYDL PAFYYPINGHFLVERVVKVRIVFI EEFADHHHLAIFQFNNRLQRHA FVVTLANVTNQPFSSVVVVNL
14860	45228	B	14947	1	3099	
14861	45229	A	14948	1174	1545	
14862	45230	A	14949	1	945	
14863	45231	A	14950	62	576	
14864	45232	A	14951	1	1642	MLANIGFYNSNVIHRSKGAIGE GPPDPRGIVEQNLGGDISIPCYN GPRPRRSAQKTTLGPLNQPRIPS AQCAGAFPRVAAAGAGGGGG GGSGGSGFCLGWRLRRRRQRR RRWRRGEGEGDGDAGHMRPR PAGRAEARRRRRLRGNPPGAR LPNREGNGSGVSWAAEVSGDG RGARTEAARTRRRPGGADNYP GAVPPVQLLTGWCVTAKAPPDI SAISALTAVKHGNCSSLTPLLNP PGSDVIVCAEMDEQWGYVGAK SRQRWLFYAYDSLRTVVAHV FGERTMATLGRMLSLSPFDVV IWMTDGWPLYESRLKGKLHVI SKRYTQRIERHNLNRQHLARL GRKSLSFSKSVELHDKEELAAL FSELKQEQKKVDELIAKLVKNR TRIVNESDVFSWVIRREFQELR HPVDEEKARCLEGIGGHTRGLV ASLDMQLEQAQGTRERLAQAE LCWNSSEMRTTMSSSGSSTPWP PVSRRRPWTERRLGSVRGDRLR ERSRPAVNRTPRMSRVPSGAPR GTPSRRWMMKCDWHQMRG LVEEEVG

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14865	45233	A	14952	1	1513	MIIALQKESLMSLQAQLDKALQ KEKHYLQTTITKEAYDALSRKS AACQDDLTALEKRTGRDWNP PPFRTQQRGSKSLTAIRPLCLFR KLNHVTSETKSLQQSLTQTQEK KAQLEEEIIAYEERMKKLNTEL RKLRGFHQESELEVILYEEEMG NHNENTGEKLHLAQEQLALAG DKITSLESLNLYRDKYQSSLS NIELLECQVKMLQGELGGIMG QLSKTSSDLSKM/RCY/TTW*M WTKLQFIHSILTSVIFHLLSFSSM GSI*KWIMALSGSSFLDAHYIS QFGPRQLPSVCAEPEKEKATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQPAGQ*RHRL RG\MDEQWGYVGAKSQRWLF YAYDSLRTTVVAHHREQSGIK CKLEEDLQEATKLEEDKREQLK KSKEHEKLMERGELEALRQEFK KKDKTLKENSRLKEEENENLR AELQCCSTQLESSLNKYNTSQQ VIQDLNKSPMEIRFQLYIFTPDQ
14866	45234	A	14953	125	363	INVSVWSQFPFGG*QPEKGLKE HPADARPGSC\PPAGRPVQGRA EVASAAPPRGSSPAAAPGQSHP PSCLRAPLYWSFSR
14867	45235	A	14954	306	583	TCSTRRRKNDLSVKYVSVWSQ FPFGG*QPEKGLKEHPADARPG SC\PPAGRPVQGRAEVASAAPP RGSSPAAAPGQSHPPSCLRAPL YWSFSS
14868	45236	A	14955	225	407	LRGMVTFSPFSSILNGQFEPNSG CPL/CPVCWVCLREPGDPEKLG EFLQKDNISVHYFCLVS
14869	45237	A	14956	484	722	NTCRCGHNRSPEVNSRRGGLRS IPRMPDAGSCS/PPAGRPSAGPG RRSPPLLPRGSSPAAAPGQSHP PSSSQGA AVL

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14870	45238	A	14957	434	1790	GNFFRKTISACIISVLSYLVSCLR GASPTASMDFCLKTSKREAAR ASRKICFVCKKKGAAINCQKDQ CLRNHFLPCGQERGLPFTIFWR VQIL*QTSP/EHRTSNMGHVGE ESCILCCEDLSPTECLRTFQSPC CSQAIYHRKCIQ/TNMPTHQSK HFFKCPQCNNRKEFPQEM/REN GNSYSRQRCCLGTRARGFLRLI SALSAL*CPHLVCMNKAETALR MKGGGASFCVLHADPTEPTGT APLLDLTVRNGSVRSVHL/PAA TDYIPENSGDIPCCSSTFHPEEHF CRDNTLEENPGLSWTDWPEPSL LEKPESSRGRRS/VLLEVQGCQ NH*QLQKIQVTPSE*LLVPHNR V*TCAPPSGLGREHSGTVRQGS RASSETMS/LSKEKSQWSMRRE QSRCQQGNAFMATRVPLLSPLL LPPRILPP*SCFHMPLLTSPMFV VMQIKVFSPKKKKK
14871	45239	A	14958	146	484	
14872	45240	A	14959	228	353	
14873	45241	A	14960	214	722	TARELPGRVLKEMYIQQK*EGA ALGRPTRPGRQGQVRRAECR RLFRGVLRPCNRC
14874	45242	B	14961	1	951	
14875	45243	A	14962	241	517	QSCGQRLPTVLR/PLRTPWILPM YPQPLPAGGPTPCLSRPYINITI LKGDKGDPGPMGLPGYMGRE GPQGEPP*GSKGDKGEMGRP RRPVP
14876	45244	A	14963	748	1055	DRKQTSPGDAYHTIPGSLSSSSD HVLSEPD*GEGSHL**SVQHDD VPPTA**RLQYRAVVLFTATL PAILIM*GMRCPLVPRNCSRTW TAQIRAYIEVQQT



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14877	45245	A	14964	1	832	MPHVCAQRRLPVA AVLPPDGA QNCILLAGLSAGTFCHHGGVHI LLSNPVATSL LVAIDRVGQIIPP PPPPALPYDCCCPPPSRHTEDRE HVPIPLHWKLMVNRWFLPVPT EWIATLSNSSRSSRTCSMQGLSF LDSQVHLKAMIEDLRGNVSKE SPCLADNADVGQFPMEGGQKD PKQRIIPFCQGVTNLSGPHGPGA VCGGSHYQKQESSEISLSVGQV WTSSRRMSQVGGSSHCRGARL GPCNVPRRPDGVQDEFSLQPEE DAG*QTSVDPMVLEQYVVVA/ NYQKQESSEISLSVGQ/VVDIIE KNESGWVWFV/STAEQGWVPA TCLEGQMGC RMSFLCSLKKML DWIQRVSL
14878	45246	A	14965	1	346	
14879	45247	A	14966	157	413	ALVCS/SSLAIREMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
14880	45248	A	14967	1930	5781	RAKSPANIIMTGSNSHITLTN VNLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
14881	45249	A	14968	1	2235	
14882	45250	A	14969	1	2148	
14883	45251	A	14970	1	1821	
14884	45252	A	14971	1	1248	
14885	45253	B	14972	4	2121	
14886	45254	A	14973	1	1137	

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14887	45255	A	14974	1	1240	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNICKSI NVIQHINRAKDKNHMISIDAEK AFDKIQQPFMLKTLNKLIGDGM YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFIVL EVLARAIRQEKEIKGIQLGKKE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRLKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMPPFFTELEKTTLKFIWNE KRARIAKSIPSQKNKAGGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEITPHIYNLIF DKPEKNKQIQKAFILHKEPWW MWNMGNTNR
14888	45256	A	14975	1	2241	
14889	45257	A	14976	1	2802	MYGTGYRDVAGKWIDPDSK REFLDVTQEGIQGCDFSGTCRQ TLSILTQPLRQWGLEGIKKPNS WIIEESVSNGGPPLIPRQTAS GVDLQQTPTDLQLRVLTVRRK TNKQKGIASTSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWVYVVRPDLRLIGVPD SDGENGTRLENTLQDI
14890	45258	A	14977	1	2739	
14891	45259	A	14978	1	2478	
14892	45260	A	14979	590	727	
14893	45261	A	14980	1	3255	
14894	45262	A	14981	1	3810	
14895	45263	B	14982	1	3127	
14896	45264	A	14983	1	3325	
14897	45265	B	14984	1	1734	

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14898	45266	A	14985	1	2067	MELKTKARELREECRSLRSRCD QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLHLIGVPETDGENGTKLEN TLQDIIQENFPNLARQANVQIQE IQRTPQRYSSRRATPRHIVRFT KVEMKEKMLRAAREKEIQTTIR EYYKHLHANKLENLEEMDKFL DTYTLPRLNQEKVESLNRPTG AEIVAIIN/SLPTKKSPGPDGFTA EFYQRG\ILPNSFYEASILIPKLG RDTAKKENFRPISLMNIDAKILN KILAKRIQQHIKLIHHDQVGFI PGMQGWFNIRKSINVIQHVNR KDKNHMIISIDEEKAFDKIQQPF MLKTLNKLIGDGMFYIIRAIYD KPTAHILNGKKLEAFPLKTGM RQGCPLSPLLFNIVFKVLARAIR QEKEIKGIQLGKEEFKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQTFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKVPMTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKD
14899	45267	A	14986	1	1293	
14900	45268	A	14987	1	3229	
14901	45269	A	14988	1	3352	
14902	45270	A	14989	1	1419	

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14903	45271	A	14990	1	1716	MKAEIKMFFETNENKDTTYQN LWDTFKAVCRGKFIALNAHNR KQERSKIDTLTSQLKELEKQEQ TYSKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKKRQKNQMDTIKND KGDITTDPTIEIQTTVREYYKHL YTNKLENLEEMDKFLDTYTLPR LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGFTAIFYQRYKE ELPGRDTTKEENFRPISLMNIDA KILNKILANQIQHHKIIHHDQ VGFIPGMQGWFNIRKSINVIQHI NRAKDKNHMIMSIDAFAFDKI QQPFMLKTLNKLVLVLARAIR REKEIKGIQLGKEEVKLSLFAD HMIVYLENPVSAQNLLKLISNF SKVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFRENYKPLLKEIK EDTNKWKNIPCSWVGRINIVKV AILPKVIYSFNAIPKIPMPFFTEL EKTTLKFIWNQKRARIAKSILSQ KNKAGAITLPDFKLYYKPTVTK TAWYSYQNRDIDQWNRTEPSE ITPHIYNYLIF
14904	45272	A	14991	1	702	

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14905	45273	A	14992	473	2385	HSFLSFIVLMYLTMDLTRSQKH GWASSPSHGTSPWPVRLRTSLA KPCKWQVSLCWWLSASPGSSF SLVRSSLLIIVPHAESVSRPSSL SRVGLFPARY*HRVWQRSPSPQ TRDHLIKRNPSQDV*RRQQPRG TRVSN\KCSLHTSALGIGRQPSC DATL*GQQGLP/VK*KRQQPAP/ MSQQQTGAALEVLARAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPTVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRITYLGIQ LTRDAKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKEPGWARSLVFGARGLQG QGRCGQSRGGGSGCLGGGGST ENWQHREPSARKTGSTENRRH REPAAPRTGSTENQHREPAAPR TGTENRHREPSARKTGSTENRR HREPAAPRTGSTENQHREPAAP RTGTENRHQEPAPRTGGTENR QHREPAAPRTGTENRQHREPAP RTGTENRQHREPAPRTGTEN RQHRESAAPRTGTENRHQEP APRTGTENRHREPSAPRTVGTE NRRHREL VAPRTGGTENRPREP PAGTRPRHTPMRGGSEGALFH QRRFLEPTPDREQLEGIRYPPVA

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14906	45274	A	14993	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFTELE KTTLKFIWNQKRARMASILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNYLIFDKPDKNKQW GKDSL FNK WG WENWLAICRKL KLDPFLTPYTRINSR WIKDLNV RPKTIKTLEENLDITIQDIGMGK DFMSKTPKAMATKAKIDKWDL IKLSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIIKKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCQMRKNTK TLI
14907	45275	A	14994	1	3189	
14908	45276	A	14995	1	3351	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVVSAMEDEMNMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFFS APHHTYSKIDHIVGS
14909	45277	A	14996	1	3192	
14910	45278	A	14997	1	2742	
14911	45279	B	14998	1	2313	
14912	45280	A	14999	1	1542	
14913	45281	A	15000	1	3300	
14914	45282	A	15001	1	1824	
14915	45283	A	15002	1	2982	

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14916	45284	A	15003	1	2375	MSGFLISPKHKHGTNSGIVSWA DVQSQLRHIEAAFDQEAAVL MARLGVFRAESEEGPDVLRWL DRQLIRLHSLTTLDIVPAGKGE VVKGPMSISQKAGCQKFGQY NKEDPTSFRLSDFSFLYPQFMF HLRRSPFLQVFNNSPDESSYYR HHFARQDLTQSLIMIQILYSYS FHGPPEPVLLDSSSILADRILLM DTFFQIVIYLGETIAQWRKAGY QDMPEYENFKHLLQAPLDDAQ EILQARFPMPLYINTEHGSQK KREKNQIDAIKNDKGDITTEPTE IQTIREYYKHLIYANKLESLEE MNKFLDTYTLRLNQEEVESLN RQITGSEIEAIINSLPTKSPGPD RFTAKFYQRTNDQKHMIISIDA EKAQDKIQPFMLKTLNKLKID GTYFKIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSLLF NIMLEVLAIRAIRQEKEIKGIQFG KEEVKLSLFADDMIVYLENPIV LAQNLLKLISNFSKVSQYKINV QKSQAFLYTSNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYRF NAIPIKLSMTFFTELEKTTLEFI WNQKRARITKSILSQKNKAEGI TLPDFKLQYKATVTKTAWYSY QNRDIDQWNRTEPSEIVPCIYN YLIFDKPDKNKKWGKDSL FNK
14917	45285	A	15004	1	1428	
14918	45286	A	15005	2	1975	

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14919	45287	A	15006	1	3891	MKPEIKMFFETNENKDDTTYQNL WDTFKAVCRGKFIALNAHKRK QERSKINTLTSQFKELEKQEQT NSKASRRQEITKIRAELEIETQ KPLQKINESRSWFFKINKIDRP LARLIKKKREKNQIDAINDKG DITTDPTIEIQTIREYYKHLNAN KLENLEEMDKFLDMYTLPRLN QEEVESLNRPTGSEIEAINSPL TKKSPGPDGFTAIFYQRYKEEL VSFLLKLFQSIKKEGILLNLFYE DSILKPKPGRDTTKENFRPISL MNIDAKILIKILANRIQQHIKKLI HHDQVGFIQGMQGWFNIRKSIN VIQHINRTKDKNHMISIDAIEKA FDKIQQPFMLKTLNKLGIHGT LKIIRAIYDKPTANIILNGQKLL AFPLKTGTRQGCPLSPLVFNIVL EVLAWAIRQEKEIKGIQLGKEE VKLSLFADDMTVYLENPIISAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNGQTESLIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMFTFTDLEKTTLNFIWNQ KRARITKSILSQKNKAGGITLPD FKLYYTATVTKTAWYWYQNS MVLVPKQRYRSMEQNRALRN NAACLQLSDL
14920	45288	A	15007	1	4215	MHSCLPDATGEGELYNSLGSLSL WSFLSMIGVLLWVDFSGDSIDL CSPLWNRTNLEALQKKLELEL DEQQRKRLEAFLTQKQKVDEL KDDDFEKISELGAGNGGVVFK VSHKPSGLVMARKLIHLEIKPAI RNQIIRELQVLHECNSPYIVGFY GAFYSDGEISICMEHMLVLLQER PCPGFLWMENSDYGLLLPLDLL LCLSFSSKVLSDLVSDILIHGM KARNRSIHGDVVVVELLPKNE WKGRTVALCENDC
14921	45289	A	15008	1	2823	



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14922	45290	A	15009	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14923	45291	A	15010	1	2816	MEDEMNMKREGKFKREKRIKR NEQSLQEIWDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYPQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLDDGFTAIFYRRYKEELV PFLKLFQSIEKEG
14924	45292	A	15011	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLIDSYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNCSTTWKLNN LLLNDYWVHNEMKAEIKMFFE TNENKDTTYHNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDAIAKNDK
14925	45293	A	15012	1	3855	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSAEDEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14926	45294	A	15013	1	2559	
14927	45295	A	15014	1	2956	

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14928	45296	A	15015	1	1853	MGRNQSRKAENSKNQSSASSPP KDCSSSPAMEQSWTENDFDELT EVGFRRSVITNFSELKEHVETNL KEAKHLEKRLDKWLTRIKSVE KILNDLMELKTMAQELHDTCT SFNSQFNQVEERVSVIEDQINE MNIDGTYLKIIRAIYDKPPRNII LNQQKLEAFPLKTGTRQGCP PLLFNIVLEVLAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSGYKI NVQKSQAFLYTNNRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMFTFFTELEKTTL KFIWNQKRARIAKSILSQKNKS GGITLPDFKLYYKATVTKTA/W L/YHTPLSCLPP*WNRTEPSEIIP HIMAVAQIQQVKLLLLQGQHA SSRLQPTSSTKCGGWTASSASP RSMGLSSWKGNLASAIHYFPCK PLTLPSRISTSSSSWGCRQAHAV LEVLRWPPGLGWPGWHHLTLL HVPPVRITKSNGPRACTRASAS HARHHQYNQEPSLSPLHSPLPP PEQVLVSTAERTEDRSYHRTL RHSPYFKNEAADLRGEGYSS
14929	45297	B	15016	1	3276	
14930	45298	A	15017	1	2274	
14931	45299	B	15018	440	3383	
14932	45300	A	15019	1	2646	

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14933	45301	A	15020	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDELR EEGFRRSNYSELREDIQTGKE VQNFKNLEECITRITNTEKCLK ELMELKTKARELREECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHL YANKLENLEEMD TFLDTYTL PRLNQEEVESLNRPI TGSEIVAIHNSLPTKKSPGPDGFT AEFYQRYKEELVPFLKLQFSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPFML KTLNKLIGDGT YFKIIRAIYDKP TANIILNGQKLEAFPLKTGTRO GCPLSPLLFNIVLEV LARAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
14934	45302	A	15021	1	960	
14935	45303	A	15022	1	2928	MEDEMNMKQEEKFREKRIKR NEQTLQEIWDYVKRPNLHLIGV PESDGENGT KLENTLQDIIQENF PNLARQANVQIQEIQRMPQRY SRRATPRHIVRFTKVEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEITNYLSHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDDTYQNLWDAF
14936	45304	A	15023	1	1782	
14937	45305	A	15024	1	4881	
14938	45306	B	15025	1	5962	

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14939	45307	A	15026	1	2053	MKAEIKMFFETNKNKDDTTYQN LWDAFKAVCRGKFIALNAHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLLKKKREKNQIDAINKNDK GDITDPTEIQTIREYYKHLIA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPIGTAEIVAIINSLP TKK\SPGPDGFTAELYQRYKEG AVLEVLARAIRQEKEIKGIQLG KEEVKLSLFAGDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYGF NAPIKLPMFTFFTELEK\TT*KFI WNQKRARIAK*ILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWSRTEPSEIMPHIY NYLIFDKPDKNKKWGKDSLFN KWCRENLWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTITTE EKLSTIQDIGMGKDSMSKTPK AMATNVKIQKWDLIKLSFCT AKETTIRVNRQPTTWEKIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWVKDMNRHFSKEDIYA AKKHMKKCSPSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRC
14940	45308	A	15027	3	3229	
14941	45309	A	15028	1	3907	MGDFNTPLSTLDRATRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSDHS AIKLELRIKNLTQNRSITWKLSN LLNDYWVHNEMKADIKMFFE TNENKDDTYQNLWDTFKAVCR GKFLALNAHKKKQERSKIDTLT SQLKELEKQEQTHSKASRRQEI TKIGAELEIETQKTLQKINESR SWFFERINKIDKPLARLIKKKRE KNQIDAINKNDK
14942	45310	A	15029	1	4005	
14943	45311	A	15030	287	2708	
14944	45312	A	15031	1	4602	
14945	45313	A	15032	1	4806	

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14946	45314	A	15033	965	5928	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKA VCRGKFIALNAHKRKQERS KIDTLTSQLEKEKQEQTTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14947	45315	A	15034	383	8708	
14948	45316	A	15035	2	3257	WRKIYQANGKQKKAGVAILV/S DKTDFKPTKIKRDKEGHYIMVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRMLRQKVNKDTQEL NSALHQVDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTQSRSTTWKLNNLLN DYWVHNEMKAEIKMFFETNEN KDTTYQNLWDAFKA VCRGKFI ALNAYKRKQERS
14949	45317	A	15036	1	3508	MELKTKARELREECRSLRSPCN QLEERVSAMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSHSAIKLELRIKNLTQNHST TWKLNSLLNDYWVHNEMKA EIKMFFETNENKDTTYQNLWD TFKA VCRGKFIALN
14950	45318	B	15037	1	4760	
14951	45319	A	15038	1	3110	
14952	45320	A	15039	1	5546	MELKTKARELREECRSLRSRRN QLEERVSAMEDEMNMKREG KFREKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLARQANVQIQE IQRTTPQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE

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14953	45321	B	15040	1	4534	
14954	45322	B	15041	1	1826	
14955	45323	B	15042	1	1626	
14956	45324	A	15043	248	1212	NSKHYSRGQKKKLPTLPRAAN SRWRS�KI/GFTVSFDETLKPFV RDVSGSRLKDLPKPNKSDDETR ANDAVNRYKLLKKDARTIAAQ QVARLESAMCLRRRWLENFQ LFLVEHPLVRHLTRRLIWGVYS AENQLLACFRVAEDNSSSTADD DLFTLPEGDISIGTPHVLEISPTD AAALLFADYELLPPFRQLDRNS YALTEAERNASELTRWAGRKC PSGRVMGLANKGWIKGEPQDG GWIGWMIKPLGRWSLIMEIDEG FAVGMSPAELSAEQLLSKLWL WEGKAERYGWGSNSTQEAQFS VIDAITASELINDIEALFE
14957	45325	A	15044	1	1788	
14958	45326	A	15045	1	3048	
14959	45327	A	15046	1	3546	
14960	45328	A	15047	969	1205	SPVRCCISAVHRTYHRRTSALL RLAELHRLLEKCASRQWMYEN I*SPFRQIA*CLPYSDHKNQRLH GLDSIFLARLLW
14961	45329	A	15048	877	1248	WPLTVPYCGVGYAS*A*VADN HRAVGYSRWAGRKCPSGRV MG/LANKGWIKGEPQDGGWI/G WMIKPLGRWSLIMEI/DEGFAV GMSPAELSAEQ/LLSKLWLWEG KAERYG/WGSNSTQEAQFSVID
14962	45330	A	15049	854	1313	DHGVASAATCVYTNEGHRQSY VRVCEYASRTRVSHHCSV*RVL RCEAIRIVSPDRSC*RDPEFSYL ALPENYNRLFLPNSTNQTNNRI KTLNSIAIGKLLAAGGVYNGNI EGFRDTAEKLDGRTIDGYDQIL NEKTAVIAKATA\SILLTKRS
14963	45331	A	15050	1010	1396	KPFGKLTyKLFEGHAWLVKAE KVRVGYRILGRLTYPDIRFPAL PFGLVL*KGAHFTVPRIWAGHA C*LMPMALPMFRWKVTGLLFIP ICLVKPSFLTTHIAIRRISTSTN CRKTPKQPSRWCKPR

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14964	45332	A	15051	361	837	DGQQIALHRLALRELQQAVH AGLPQQA KILFDGGSEIGKIPSEI YFCQLVKLILCPVLFPCWRRVA ILWRRRDVLF FGSFSFSALVSPH LCG/SYLPFVFDVGDRL*LSVG WS\KEIW PCK*GFGHLSVLNT PMKSLVEGFKHFPLAGFGYEYL SFFCR
14965	45333	A	15052	1563	1652	
14966	45334	A	15053	2756	2995	AMRSAHRCTVFSALLNCWQITP HLTPSVMICGQLLTLVNRC*PSS TIFSIPLSKQVARMFRSAMSPL NRARCWKVPCN
14967	45335	A	15054	762	2184	WRAVPSEPISFILKADTEKYVY L*NSSSAQYSGSCTRAYYLD TQ HPTPRLCLIF\GGKDSGLMLHLT AELARQMGGKICVLFIDWEAQ FSCTINYVQSLRELYTDVIEEFY WDALPLTTQNSLSQYQPEWQC WEPDVEWVRQPPQDAITDPDF CFYQPGMTFEQFVREFAEWFSQ KRPAAMMIGIRADESYNRFVAI ASLNKQRFADDPWT TAAPGG HSWYIYPIYDWKVADIWTWYA NHQSLCNPLYNL MYQAGVPLR HMRICEPFGPEQRQGLWLYHVI EPDRWAAIGSPADREEDAE EYL EAIMEARVTVAGMGLVMEVQ DYFDGEADRLAKAWLA EYTPQ IKSLKDERKEAYRQIVEMSTEP QDVDLVRPANKFEMTRVREGE KEADLPVWKHHLLCDESGNYP ALLNHWETKVFEIETKREGFAF WYRNPQYTGQSSLGIAYVEAE QYKIVRPDLFFAEQDGKMOV
14968	45336	A	15055	2069	2586	PWLENLPVGICWSAVKKMGGT RSLVSCL/AVTLVSPQLMNAYL LGQQLPEVWDFGMFSIAKVG Y QAQVIPALYL VVVVPCSLILAV FLAHALIGPFGRMIGDGVAF AV RHLMTGSFAPIGAALFGFLYAP LVITGVHQTTLAIDLQMIQSIGC TPVLPVNALSNIDLWHISILV

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14969	45337	A	15056	356	1205	APASMTFEQFVREFA/VMVFTK RPAAMMIGIRADESYTVLSPSP V*INNVLPTITWTFPQTIYDFLW LIGEAIFF/YLPVGICWSAVKKM GGTRSLVSCL/AVTLVSPQL/MN AYLLGQQLPEVWDFG/VCSLIL/ AVFLAHALIGPFGRMI/GDGVA FAVRHLMTGSA/PIGAALFGFL YAPLVIT/GVHQTTLAIDLLMM QSMGGTPVWPLIALSNIAQGSA VIGIISSRKHNEREIPGEVFPRT GVGKGKSLG*PLH*LQPYRQHL GAGSYSQTLKKQIAESAVRLSIP
14970	45338	B	15057	1	435	
14971	45339	A	15058	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPKLMRWGATYV HFVRPVHTVTLGLGDKVIPATIL GIQSDRVIRGHRFMGEPEFTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVEWPVVL/TAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYQPFLPGCTGSRILES TPGQMTAAVDVSKAGISKTFTT RNQLTSNQSIMNLVDGPFKKL IGGWKFTPLSQEACRIEFHLD FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYYIVIV YISYRPPNLLDSHIIGFSSITTHC AVTSHHYNSCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDDTRIHTI ESRCRVCGAHDSDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRFDMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
14972	45340	A	15059	1	993	



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14973	45341	A	15060	1	5621	MSEKTFLEIGTEELPPKALRSL AESFAANFTAELDNAGLAHGT VQWFAAPRRLALKVANLAEAQ PDREIEKRGPAIAQAFDAEGKPS KAAEGWARGCGITVDQAERLT TDKGEWLLYRAHVKGEGTEA LLPNMVASSVAKLPIPKLMRW GASDVHFVRPVHTVTLLLGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGVIA DYEERKAKIKADAEEAARKIGA KAWGTNVEFHVQNQP
14974	45342	A	15061	82	732	
14975	45343	A	15062	1	3849	MDLGANGWQTFRYVVLNLS ALLAGGMLAFALSFDEIIVTFT AEQVDAAVRAADAAFAEWGQ TTPKVRAECLLKLADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSL NKQKDL QDKLVQQLD TDLATL DKIDRI KEETVQLRQKVAEAPKMRQA TAALTALSDVDNDEETRKILST LSLRQLETRVAQALDDLQNAQ NDLASYNSQLVSLQTQPERVQ NAMYNASQQLQQIRSRLDG
14976	45344	A	15063	219	1186	PPKLGRKRGIFLPSHSNPNTNRI CPNCCMNGVSTANTTSKSSLVI CAWTKHALLNAILQPEQLWKS GSRWRINLALPRGYRESLLQPW QAERLTDDKGEWLLY/RAHV GESTEALLPNMV/ATSLAKLPI KLMRWG/ASDVHFVRPVHTVT LL/LGDKVIPATILGIQSDRVIAA TGKAKIKADAEEAAR/KIGGNA DLSESLLEEV/ASLVEWPVVLN AKFDEK/FLAVPAEALVYTMKG DQ/KYFPVYANDGK/LLPNFI/F/ VANIESKDP/Q/QIISGNEKSFVR LADAEFFF/NTT*KRLFLPHQKL PPSQILHQQTRNYASFCHHRD NWTSA

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14977	45345	A	15064	1	1496	SGGCAGLHGGLCSKEPFQASV QQGVAGHACAPAAALQVPVCGT LSDCGSRAASLCENPSFISLYGR LVATSLAKLPIPKLMRWGASD VHFVRPVHTVTLL\LGDKVIPAT ILGIQSDRVIRGHRFMGEPEFTI DNADQYPEILRERKGVIADYEE RKAKIKADAEEAARKIGGNAD AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQQI/DRIQALAGWIAE Q\IGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMGMHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIIVEKNLNLDLQTLT EEAVRLYGDKLTNANVVDDVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDDWHALG RAGTGDVVVGVRGLAIVPLT DGLDEAGHSTGVLQGEVPQRL ERAATVPGVTLQPQALQARGL
14978	45346	A	15065	134	384	VTPTGWRKRRIRQWCSDAGCG VNALSGLRFSHSLALFSAAMFI LGVVSGITMSISP*ILSCVRSKNP LLVSGSGPLSCNSTIH
14979	45347	A	15066	1	723	TKSPKIARSRHIPLCHFIFERRPI MTNSNRIKLTWISFLSYALTGA LVIVPGMV MENIADYFNLPVSS MSNTFTFLNAGILISIFLNAWLM EIVPLKTQLRFGFLMVLPVAG LMFSHSLALFSAAMFILGVVSGI TMSIGTFLVTQMYEGRQRGYR LFLAASLFSMAG\MIFPMIAAFL LAPSS*W*WVYACLGLAYVTIF IMTFGCEFPALGKHAPKSYAPV EKVKWGILGGASSFRAV
14980	45348	A	15067	422	1045	LLEGKLTNRKQ*HQH*QKARPC KKPIQSAQN/WNREEYDELTEV GRRWVIITNSFELKEHVL TQWK EAKNLDKRLQEGLTRITSLEKKI NDLMVLKNTARELHEAYTSINS RIDQAEERISEIEDQLNEIKLED KIRGKRIK/RQTNKQSL*KMWD YVKRPNLRLIGVPESDEENVTE LENTLQDIIQENFPNLARQANIQ IQEIQTLLR
14981	45349	A	15068	1	1131	

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14982	45350	A	15069	383	756	LNPSNKLALINPAASPIIKGVDL TANQI/PCIAADIPLYDADVQQE* CFPATVEALGEQIRQADGVVIV TPEYNYSVPGGLKNAIYWLSRL RQILVFLDAMVMNKPEFMGGV IQNKVDPQTGKVIDH
14983	45351	A	15070	343	924	
14984	45352	A	15071	223	308	
14985	45353	A	15072	57	5546	NKMARKKFSGLEISLIVLFVIVT IIAIALIVVLATKTPAVDEISDST STPATTRVTTNPSDSGKCPNVL NDPVNVRINCIPEQFPTEGICAQ RGCCWRPWNDLIPWCFFVDN HGYNVQDMTTTSIGVEAKLNRI PSPTLFGNDINSVLFTTQNQTPN RFRFKITDPNNRRYEVPHQYVK EFTGPTVSDTLYDVKVAQNPF IQVIRKSNGKTLFDTSIGPLVYS DQYLQISARLPDYYIGIGEQVH KRFRHDL
14986	45354	C	15073	1	1818	
14987	45355	A	15074	493	576	
14988	45356	A	15075	381	498	
14989	45357	A	15076	48	514	LLLFLLLQSYDWSESGKRQSAL HGRQKGLPKSPTAARGGSDPW PSCRHP*GPNRKRKRS/R*PMET APRRPSVSPALTPARPPGLTATP RLHPRPP/RSPNPSANLLRRPTP DT*AHATFGPGRSRHHFPGQLS TE/RRRSAEGGRSRNEASRRE GGE
14990	45358	B	15077	1	1116	
14991	45359	C	15078	249	332	
14992	45360	A	15079	710	1326	RAAGNCFPEPGFVKQLSAAAA VVAPAAAATEGSIPDTGKSPSSI SHWPNPQKNVICKRRGRVEQE QAWKGR*RVVFG*LSMRCP VDLLPQSCLCQRFLHQ/GKWIL TKDYIIHSAKSGRWLDATTYE WGYKIEKDSRYSPQMQSAPKR WREELKRTGAPGAFHRWKVVL LVRTDKRSDSLIRFSDNFGDCDI RMEEKTFRTLME

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14993	45361	A	15080	602	1257	FGKRGRITITLCILAVGMLCCRK GHTKPRRRPGASPISTHLHSSPPI STHLHTSPPPHRRREAR\SGQ*R QSCGAAAAR*PWWWNC DGWG PKCQRFSKH*DIAQPDEVSWGQ *PWAVGALAGPHPPQASEGPL GCTPASICGSTRKPSKPLSKKPP QAARTSSSRIVFTPISTRPPTQG QPEKAKSATPTNDLEGPSAKVK FVNFLMDETFPEPSFFFI
14994	45362	C	15081	140	175	
14995	45363	A	15082	2295	3089	NLLGYQEINPPLQIFWDKLLAV SERDSSVKEESGDVESDDTML* MLPCP*ETTEFSS*PFRISS*LSS* STAQI\PAETCFAGGWYSIFCPQ RIEQETMCLL*SWQSEVAVSCE SPWP TALHHSHPNRAPP CY/S KSTSSSLSSPLENSG*QNRPPSLL ITSVLPLRITCLP*VSFIPPIMQLG GSFLSNDRL*QSFILPKNVSLEF VSFPLI*GAVSKPAISFNTSVSPL LVSDIFFALSLLP*GLGTWLIPSS SSLLLVRGF
14996	45364	B	15083	143	1727	
14997	45365	B	15084	307	1017	
14998	45366	A	15085	1	959	MSRMGLLGFGERKELPNHPAV SEWPLTLVTGCSSGTVAEGEGN LTTSGLFSIVPLHPDGVAAGQR HSSLPRWGSQAEALLTSQTVDG QAEMLLTPQTMGGQEEMLLTS QTTGEDFITRSTESGTHSKSHKG DEGEPRWMLGWMLWVCDIAE PLVKAKLLDCKHTCCSVCLQQ TRTSQKDVRCPWCSGVTKLPPD FSVSQLLDDPEVLAVITIPHASE HMPVFIRLPGSGCY\SCPCSPRS TRCCPEI*AATCCPGTGRSPSL\C DHPCWTAASARQSGPGGGGGG AGQAGHGEKLHVVEGVHCHL GGLRLGLPPQHRAP
14999	45367	B	15086	112	672	
15000	45368	A	15087	2	530	SGRSAALLSARVNRSQSFAGVL GSHERGPRSFVPFSPGP RP KPP ALSRVSRMFSVAHPAAKVPQPE RLDL\VYTALKRGPDGLLGAVH QQEQEKLQGQIRESKRNS/RLG EWREGFLYDL DKQVKSIERFLR RLEFHASKIDELYE\AYCVQ\RR LR\DGALHMG\RAYTTGSPGSR

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15001	45369	A	15088	216	1369	EPVLRRRPRQPRAGAQQFPVFS PPGPPRKPPALSRVSRMFSVAH PAAKVPQPERLDLVYTALKRG L/QAYLEVHQEQ/DKLQGGQIR ESKRNSRLVMAGGVLTWTVV*E RGAVTSLASAGVLLIPPKYLPL LPTPAGL\LYDLQKQVKSIERFL/ RRLEFHASKVRVQHVCRWD\D ELYEAYCVQRRLRDGAYNMV RAYTTGSPGSREARDSLAEATR GHREYTE/DEGWGPMRQRHRS MCLLES/ELEAQLGEFHLRMKG CAVDINDLGTIKLSLEVTGAAS SVNKASTVTKRSPPIARAHRT PHFGNSFLSTRKPNTYTANHRR RPIEQHPDMRTPPPPHRARTNT GRKDKVRAHEGEKATPTRTRG APHGKAQRLRPLYQYVTIATLS
15002	45370	A	15089	1	940	MSYNSKNYVETITMNSVKFG ETTPRNRTHYLSTNEKKIFLSGV FSNAYPAGLSRGWDSPWGSP WVRHFCYLSSTQLCDQNCILLS SLLPAGPSVCNRLLASAWQKSS SSASSEASETCQSVSECSSPTSD WSKVGSHQPSGATLQRRKDR VE\PCETQSPGPASGGTLGPSGE EAPRPRMSPATIAAKHGEEVSP AASDLAMVLT\RGMSL*HQKSS RDSLQYSSGYSTQTTTPSCSED IPSQGRPAGLGPTKPVSIESTYL QSPQRLKQEWATEGKIQLPQ IQVVNFQVDSSPSLPLIMVPEH MHVS
15003	45371	B	15090	1	777	
15004	45372	A	15091	26	336	KISPMINVFCSESSPSGERRGA* TPSPQSPPCGPKPSSPPSCSPSR NYFLLFQGLCAEHPALAAPAAS VGTCPSPASGTHAAAPSGPWRG RCVHSGPGGRLW
15005	45373	C	15092	46	423	
15006	45374	A	15093	1773	2219	ELDYLCSNSSAQCPGALLPSL ALPGPAGSARQAGSPARRLCAP VQPSGRWPAPGGPGFPGSSCPA SPTRQ*LLTSGSGCPRPCHHP PPQ*QSTQAWDWVILGPGAHG PSGQRCERCLPSRPSGPQTHSG VGSEPRAVRGPGVSFV
15007	45375	B	15094	1	7916	

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15008	45376	A	15095	16	545	GLPWRQHVRVEECGRS/PLRPC SPGTPSPS*PLPAATRGPATCQS LSGLQPEKTT/SPS/CAAVAHER PPGPVPQCPAQGTGLIF*EGWT QPQQIRQGPHVAHE/CAHDLQ QAAPGPGGAHQG/PSQPG*PDR QPDAERAVVHPGAQ*DAEIQPG LPGEGGPLATRTERSPAQRPS QARG
15009	45377	A	15096	320	1167	MDLKTAVFNPARDGKLRLLLTK *\MASKSKEEVSSLISEKTNAT PLLMAARYGHLDMVEFLLEQC SASIEVGGSVNFDGETIEGAPPL WAASAAGHLKVVSLLNHGAS VNNTTLTNSTPLRAACFDGHLE IVKYLVEHKADLEVSNRHGHT CLMISCYKGHKEIAQYLLE\KG ADVNRKSVKGNTALHDCAESG SLDIMKMLLMYCAKMEKDG GMTPLLSASVTGHTNIVDFLTH HAQTSKTERINALELLGATLFT QKEISCDESGRTRDLSPRRKPPH
15010	45378	A	15097	187	623	KLKTQKNNIGPQACNSQLASVS TRSPPTLSVPIIMTDDSQASQL LLAAVTIRKLWSRMAPMLALP TGQSGQTGAEGQGKEGERGQS PCWKPRLDPKLC/EPRQPAQLL* ADVCTGP/CGVRGCPADCR LPC LSPSSAQPKASRSA
15011	45379	A	15098	789	1041	
15012	45380	A	15099	707	1373	SAWPSCHCCHLDILSR/PGDDA CSVQILVPGLKGDAKEKGDGK APGRPGRVGPTGEKGEKGDG DIGPPGPNGEPLPCECSQLRK AIGEMDNQVSQLTSELKFIKNA VAGVRETESKIYLLVKEEKPYA DPPLSWQGRGGLSMAQDEAV HGLKGAYLGQARLGRGFIGIHR PWKRRAPLLF*TLSPRSF*KG DGGGNTQKGSRKREL AQI WGPCIRR
15013	45381	A	15100	79	420	WRRFLFLGVLFGRGYLGCLRSRS VLGRLKVSDMRIFFFACGCGHL STLPSWPLRPSLWLRL*EEQELP SLSVPSGRSASRL*LGWRGF GPSPSPRLTVQFSGGRRAQGPS
15014	45382	A	15101	3	284	
15015	45383	C	15102	83	112	

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15016	45384	A	15103	84	303	EEQELPSLSVPSCLWGPCPRAG WLHSLHWPVSHSFSATSTFGM AIWT*SLASGIKPQSSSKVSSRIQ VPPTM
15017	45385	B	15104	112	462	
15018	45386	A	15105	326	1323	DRKAINLQVKLEGAVAL*KP\G EAQLEFGKALGLFQ\STLGHHF VNNKEKILGDF\QEATLQAATK LTRGRSLVMENMEQLLSMRME DQSQRNMPLSVVLIREKAHSPF ENRKQEQGEGASPENFRAR\QG *FLAFKAAPPA*AASGPAAQER SVQEPSVNPAG*IPEGGLHTLA GVHHE*ALAWCSPLNKPRFLW KRLP/SRTFHFVVEDESAPGSKP SGDLLTLLGGNAAGDFK\K\P CLVYPSENPCFLKGSFKPNLPL VWCSHKKA\WVQPG*QSETPFQ KKKKKKKKAWVTMSLFQEW LHFCSTVE/ARCTQYDLPYKGL PILDSTPGHPC
15019	45387	A	15106	3	375	HASAHASGLQQSYQAVKEKSS EALFEMKRDLTFTQVQHD ACTIAATASVVKEKLATEGSSG ATEKMKKGLSDFLGVISDTFAP SPDKT\STAMSSPYDGTARLY SLQSDPATYCNEPDGPP
15020	45388	A	15107	184	377	YCTNNQKVN*TKEITKRKTPSR QKKDSAFSPSHPLTEGLK\W NDLTLSVSLTHDGFVWRRGKV
15021	45389	A	15108	3	816	SWEDVGWWRSLWQQSYQAVK EKSSEALFEMKRDLTFTQVQ HDTACTIAATASVVKEKLAIAA CSRACFLCPFSIQTEGSSGATE KMKKGLSDFLGVISDTFAPSPD KTIDCDVITLMGTPSGPAEPYD GTKARLYSLQSDPATYCNEPDG PPELFDWLSQFCLEKKGEISE LLVGSPSIRALYTKMVPAVSH SE/TFWHR\YFYKVHQLQEQA RRDALKQRA/VSGDSCT*SGVL TNE*KGSWVRDTERVRSPLQT FSEGVGWREC
15022	45390	A	15109	1	281	

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15023	45391	A	15110	1	1194	MGFLHLGQAGLEFLTSGSSTDI SEDWEKDFDLDMTTEEVQMAL SKVDASGEPFCFWKGYPPGEL ETLIRLLQKLFFLKTDPAFVLSP STLVKLHLWGNEGLQESLES LHDAALVILVPNLEKKGEISELL VGSPSIRALYTKMVPAAVSHSE FWHRYFYKVHQLQEQARR/A RLKQRAEQSISEEPGWEEEEEE LMGISPISPEAKVPVAKISTFPE GRTLAPQSPCEENLVTSVEPPA EVTPSESSESIPKSPLPTRALGTD
15024	45392	A	15111	213	1031	AGNKPDPWAGRNRTAVLPDVS VFHREDVGWWSWLQSSYQA VKEKSSEALEFMKRDLTFTQV VQHDTVCTIAATASVVKEKLA TEGSSGATEKMKKGLSDFLGI SDTFAPSPDKTI*\RDVITLMGTP SGTAEPYDGTAKARLYSLQADP ATLLY*PDGPPELFDWLSQFC LEKKGEISELLVGSPSIRALYT KMVPAAVSHSEFWHRYFYKVH QLEQEQAP\RDALKQRAEQSIFE EPGWEEEEEEELMGILPIFPKEAK FPLAKISYIP
15025	45393	C	15112	414	557	
15026	45394	A	15113	98	467	
15027	45395	A	15114	1	155	
15028	45396	A	15115	16	94	RCPIASEASWTITD*RCPIASEAS WTITDALGNSYSGGMAF
15029	45397	A	15116	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
15030	45398	A	15117	3	282	LKPVITCLLQLGLKPINSPYNS PTLPVQKPDRLPYSKPNSLP*LNP SLLQRNYTSIFLLTLNMPISCT TMLLYGQKEISSLHKGPPSLMP
15031	45399	A	15118	548	1401	SCTPCWHLTGRLWGITA VRQK RHVLSVDPKLRHQSR TGKAAFP WCLIIAGTPL*LYTHVSRVSDH AGMPALVLHPLQQVPLFWGRG NTL*KD*SLLSLAC/VQHGLLKP INSPYNSPILPVVKPKPYKL VQ NRLINQIVLPIHPVGEAPVPLE TGKSGKDCILWFECHLSHNTI EHQVSSSTFRIVVATGVLVSLH PQLYMAQNRERHAEC LGESKG REQESLSGNPENS RFSLLTSRRY LYKSTRTIVLLGLAGPLKQKKL RSQHPSLYKYLQSF RNKDSYR



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15032	45400	A	15119	144	298	WQVPLFWQPFPEPELELWPKA/HLTDSFPDLLGLAAED*RCPIASEAPCTQVI
15033	45401	A	15120	449	667	
15034	45402	A	15121	2	111	
15035	45403	A	15122	323	401	LLLGLAAED*RCWIASEAL*TITDAK
15036	45404	A	15123	2	593	CTLP SH*NLITLTPLNANIPSHGML*KD*SLLSLACYSTAF*GL*TPLTIPPFFYL FKNQTRLTG*FRICPLSTKLFCLSTPWCQTHILSY PQYLPPQPIFLFWISNMLSLLFLCTLYPSLSSLSLGLTLTPIRLSKLPGPYCRKPSQTAPTSNHPSSFSGSWY SVETSYPLSSSIFRKGRDTSWSLKDTPHQAQPPT
15037	45405	A	15124	354	630	
15038	45406	A	15125	29	354	RFLVSLMLPPAVVMLNHCYSLI FTNALVKRLF AWMNLSELATCAGNLATGPRNARSPGFLSCVP SVRDPTGNQTVQLTWQPLPELELWPKA/HLTDSFPDLLGLAAE
15039	45407	C	15126	1	576	
15040	45408	A	15127	377	624	RDQLQCLQLWDAGACYTCWK SATGPRNAHSTVFLLSHVPSVW DPTENRTVHLTWQPLPELELWPKA/HLTDSFPDLLGLAAED
15041	45409	C	15128	1	462	
15042	45410	A	15129	44	340	PCQTTQGRLLTAGTPL*SFTHVSRVSDHAGTPALVLHP*RQVPLFWGRGNHISGTQELPNT*TAV/VQAF/LPEPPPTG/CLLHVPEIWPLGQGMPAGQDSS
15043	45411	A	15130	242	522	RLVWPTATQRAW SQSEAAAKTVDLALSARNSATGPRNACSPGFLLSCAPSVWDF TGNRTVQLTRQPLPELELWPKA/HLTDSFPDLLGLVTED
15044	45412	B	15131	1	1080	
15045	45413	A	15132	1	642	

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15046	45414	A	15133	245	1033	TALLLTQSLFGGLFTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSM*LD*SLLSLACYSMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFLCLSTPWCQTHIL SYPQYLPPQSIILFWISNVLSLLF LCTLHPSLSSLSLGLTLTPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
15047	45415	B	15134	146	556	
15048	45416	A	15135	1	555	LTSFLHCCLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHLHWCWQPLPELELRP KA/HLTDSFPDLLGLAAED*HCP IASEAALPPCFPRPDMITSRLQL QRRRQTALGVRYRNATYRTRT ASTNSLRPRGSPFPLALVTNDR QVRSQALWKRDRLLQLSPINR AIESSFT
15049	45417	B	15136	1	555	
15050	45418	B	15137	499	769	
15051	45419	A	15138	752	1111	MQPTIGNSQSVSRPTA*MPLAE SHPITQLVGTVTTPRVTPLSIRH PWRCRSANAGAMILTMKQLAI VMRVYQHQRVRRSMRPGRNGA RSGMSAVGAYYSSCIRVMTAL QCTGDDEAVLL
15052	45420	C	15139	1	632	
15053	45421	A	15140	1	375	PGVRGAQGGPSIPRQCEESAIGP KFAWIISSFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPELELWPKA/HLTD SFPDLLGLAAED*HCPIASEAPA LVYTAGLHCFKPSQ

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15054	45422	A	15141	1	1340	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLGVQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKKNGEKRTRL QKRKKGMPPHPAYEDLNIAAIT LPANVVLHQPSGFRITSGQLDPV WWSLDTDAHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTDQPKKHLTNFKSKTKET GFIHGPKTPAPVTDWEGSLPLV FNH\SGTPL*LFTHVSRVSDHAG MPALVLHP*RQVPLFWRRGKI* LTSPSRCTIIEKSCNSLPPL*DKP QPHLQHTRTSKCLNRSGQAF/L PEPPPTG/CLLHVPEIWPLGQGM PAARDSS

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15055	45423	A	15142	2	2107	IDMIFTGPPSTPKHKKSQKGS FTFPSQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHPVNLP RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSDRISPRQRSITRSDTP LSLMSVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGISDSTVPLFLSSEILQKQVG QSITSMGLFLSRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTFEIKSTSIL SVNQSNECDCIFCVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTTSGPQTDQPKKHLT NFKSAARPTFLGQGQVPLNPFS FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLL YFSGG QEPPPPPLLCVSSLFSRLASFTM GAFTHGTQTPSPTKATAPRYPQ TGDLSAEWPFTAGEEPVLVPRP
15056	45424	B	15143	1	930	
15057	45425	B	15144	401	1093	
15058	45426	C	15145	1	843	
15059	45427	A	15146	1	498	
15060	45428	A	15147	112	669	SLQGRLSDYTPTFQGCQTQGC LPWSFTLCSKSRFSGEGETRFKR IKACYHSPATAWPFKAYKLSLQ FPHFTCRKTRQALQVSSAPY QPNCFAYPGRGAEPHSPILNTS LHNPLFCSGSQTCLY/SFLCTL HPSLSSLSLGLTLPIRLSKLPGL YCLKSSQTAPITSVKPKFLPHLL PISA
15061	45429	A	15148	957	1100	

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15062	45430	A	15149	303	2028	LGSGDLPWEINPLSSCSLLREKD PPTSGPQTHQPKEHLTNFKSD KGDMFYPTWQY/QCRSRTGK AAFPWCLITAGTPL*LYTHVSR VSDHAGMPALVLP*RVPLF WGRGKLLARPS*VPILPQPLL HPIIFLSPPLTPGPAYSFVL*LA LPHLPSNLLKRWLEPKA*SSM/ TLKGLKPVITRLLQHGLLKPTN SPYNSPILPVLKPKPYKLVD LRLINQIVLPIHPVLGIIGLTSSV RRDAGQDLKRDRAEFLGDEV HHPHRRRIAEARLLLGQHFDP LHRLIGQVLELGEARYAPPVEQ HHRLAPARRTGQRLHLEQFG QAGRAQRNRLGIEHRDRLDRP DDGAGNALAGDGFRRGCLFA GIGIRPRYCRYRQSQDDRRPSH AAPRPRALPIPHRPATPIADV VMFSVAIMSQRLLVLRHIDGIS RWPPAVVFITDVKIWLVPYSD CRIRSNDRDDMQGEAPAMSMN AAARVGDPIGHSFSQGLFGEAL DGLFFARRSEVDMRAGNLRLI ARGLSGGRWTPADGQLTLGSR DVFINGPPATMTIRSTGQCRQH
15063	45431	A	15150	653	1076	RSKYPNLVSLCPSPLFPRPDLLS LWPNPLFLHPNLLYLCAPIYFH APTSYLCTPTPYFHDPTPFPLFW KELATSARNLATRPRNACSPGF LLSCVPSVRDPTGNRTVQLTW QPLPELELWPKA/HLTDSFPDL LGLAAED*CCPIASESP*TS DILGRDTHLLALKVQTVVLQTACGE GHVAGNCGRPLETEGSLQLTAT KKLRDSVLQPKSPEFCQQFTRA WNRTQVPDETEAPAGTYAAQS GDLPEINPLSSCSLLHEKDPPT ASGPQTDQPKEHLTNFKSGFRG VRPRDACLGPSPLAASPAFLG KGQVPQPLSVSLPLLRLSGGQ ETPNPFSFTLSGKSAFLEEQVPQ PRISVPQSLISTPRPLISVAQSLIS APQPLISLCPNPLFPCPDLLSLHP NPLFPRPNPFAFLEGACYKCQ KSGHQAKECLQPGIPPKLRPICA GPHWKSDCPTHAAATPRAPGT LAQGS LTDSFPDLLGLAAED
15064	45432	C	15151	234	449	

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15065	45433	A	15152	2095	2663	LGLGDLPWEINPPSSCSLLREKD PPTTSGPQTYQPKKHLTNFKSA CFERJKACYHSPAKAWPFKAYK LSLQFPHTCLKTRHAI/PS*FSD LCLINQIVLPIHPMVPNPYTLLC SIPPYTMHYSVLQLIRAFFTIPLH P*\PSLY*VSLGLTLPIRLSKLP GLHCRKASQTTPITSVKPKFHP HLLPIST
15066	45434	A	15153	678	1189	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSE TKETCFIHEPKTLAPVTD*GRQP SLGV*SLQGRPL*SFSHISRVS HAGMPALVLHP*RQVPLFWGR GKYPNPFSPCLLPLLCFSGDRG KYPNPFSPCLYSFSAFLGTGQVP QPLLSLSLPLLCF
15067	45435	A	15154	649	1428	QCISELQFLLASTVRQTPATSPA HKNFQTPELQRPGVPEPPPTG ACYTCRKSGHWAKECPQGIPP KA/HLTDSFPDLLSLAAED*HC PIASEAPETITDAELPVTLTVEA HLHPGEINSHVAHTKPVWWSL HRDAHEIWCCDSDRGTSRLRPI PCPPALCSVTKIHLRPQVLRPTS PRNISPISNPAAPHQAELGPNPS/ SSLCSSL*SFYHLPSSHLVWLT VSFRD
15068	45436	A	15155	240	1208	LRSGDLPWEINPLSSCSLLREKD PPTTSGPQTHQPKHLTNFKSC KQ/DLFLSSPTSLTIPQLSPFN LGATLQSLPSLNFNSFHFLVETK ETRFIRGPKTPAPVT/VLGRQPS LGV*SLQRCLSDYTPTFQGCQT TQGRLPWSFTLSGK/CPLFWGR GNTL*KD*SLLSLACYSMGLLN PINSFPSSHFTCPKTRQAVTS* VQDLRLINHIVLLPIHPGGAQPH TLFCPQYRPVVLPIILFVYVKHA FFTIPLQPLIPSLSLPSRLTLTPI RLNKLPGLCCKAFRDSPHYLN QAQISSSVTYLGIILIKAHVLSL PIVSDW
15069	45437	A	15156	1174	1623	KFGLVQLTLGKPLPEPELELWPK A/HLTDSFPDLLGLAAED*HCPI ASEAPYTITDAELRVTLTVEGK SVPFLINTEATHSTLPSFQGPLSL ASITVVGIDGQASKPLKTPQLW CQLRQYSFKHSFLVIPTCPVPLL G*DTLTKLSASLTIP

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15070	45438	A	15157	1	1610	MGLGKSLCILKDAVLALREIKG ISFQYAPNTNRLWGYRQAKQT QHLSGISTLDCPQRYNGDDTGS VWALEPSCMLWACPLVPSEIY YFISEDVWKHLDAQEKFAAVM GPSRRTSVRAVWKGNGLEPP HRVPTGALPRVAVKRGPLSSRP QNGRSTYGLHCLKDTPQTQEDW LVSVLPEGSRVGVDP LIIPTALG HGRRTTFLKVLD FQGPAPCPAA MGVRLMAGPQCVSSDYWKKM AKVLR SAGHHLIPVKENLVDKI WTD RPERPCKPLLTLGLDYTGI SW\KDKVAD\RLRLKMAERNVM W\FV\VTALDEIAWLFNLRGSD VEHNPVFFSYA IIRD*ETFMLFI DGD\RIDAPSV\KEHLLLDLGLE AEYRIQVHPYKSILSELKALCA DLSPREKVWVSDKASYA/V*SE TIPKDHRCMPYTPICIAKA\VK NSA\SEGM RISDEKSAGNLTED PFYVIDRTLITGVCNSTEKSS LMSVASADTAENLWHLFFHILP SERALTRKLRVLKLGPNYSVQ NPTAQLHQQGPLGVA
15071	45439	A	15158	1	756	
15072	45440	A	15159	1	1677	
15073	45441	A	15160	1220	2620	GPTEPHTGELWLES GGCPSGTK LPEEGTGSNLCCSTASAGDTQA NRVCSGPPTNHSRPAADRPVRR KINKQKTATSTSTKRTSTQRP PKVTNDHSSSPAREQNWME FDELTEVGFRRWVITNSSELKK HVLTQCKEAKNLEKRHSLGTK EPAALKGRTQYWQDSSPADLR PWL CATLLKQYKPTVFSHSTVA VHPRAGFLNLSTVDQHPVLDEP IAEAVCIADTNKWSVQVATSQ RKVPHNLKLGQDVLVSSQVSSL LQSILQLYKLHLPAD FVG DILLD NNLKCVFQLGSILPVTFRSHDP YDGEGTDELRTAACSPDTEQLA RQSGTYPVSLGQATVLEDSKA ALPGLGPTLMAVTVTTEAAV DMVVGDRGEERGGLVAPGTR GLTEEIWFVPSPSRWWSSHPV VAFITLAKYGPTSSPPVFHHGPN IIRHGAQGAASAGDSGSSSRCD RLPCRQNA

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15074	45442	A	15161	666	1536	FSSAGDTQANRVCSVPPTNHSR PAADRPVRRKVNKQKTATSTS TKRTSTQRPHPKVTNDHSSSPA REQNWMEN\EFDELTEVGFR WVITNSSELKKHVLQCKEAK NLEKRVRVNCLTRIT*P*RRTI KTLMEKNTARE\LHEAYTSINS WINQAEERLSEIEDQLNEIKRED KITEKMKNSTTVRVAASMOSK LLQGVAEEGPLRLTRSASFSAEI SMCHQWLFSTFGNGKSRNRYH CEKAHIEGNQLVEETGRAFKSR HRYGTGPLHKFEIHEYTELHHV LMLQGKC
15075	45443	C	15162	104	364	
15076	45444	A	15163	162	467	
15077	45445	B	15164	1	1122	
15078	45446	A	15165	188	456	
15079	45447	A	15166	485	1580	GEGYKADLAAATVECPICQQQ RLTLSPQYSHIPQGDQPTTW*Q VDCIGPLLKGQRFVLTGIDTYS GYVFAYPVCNASAKTIISGLTE CLIHCHGIPHSIASDQGFHMA KEVWQWAHVHGIH*SYHVAD YPEAAGLIEGWNGLLKSQQLQC QLGDNTLQGWGKVLQKPMYA LNQHLYGTVSPIATHGSRNQD WNGSSLRGWTFITLFTAPRREP GTYIASDQRTFHMAKEVWQW AHAHGIHWSYHVADYPEAAGL IEGWNGLLKSQQLQCQLGDNTL QGWGKVLQKPMYALNQHLY GTVSPIATHGSRNQGMEEVEA PLTITPGDPQAKFLLPVPMTLCS AGLEVLVPEGGTLPPGHTTIPLN
15080	45448	B	15167	10	2352	
15081	45449	A	15168	2	497	WKPIAMRKSRRRQEKLVPQK EGQPKEGEREEGGPVQAQKVP NRLHLHWTT/HLPSFFQLPLLD SLWRALKFVVLEAIVKMIRFNG VLGKCEAIRAQALHEGGPPLPL AVFHNRRQLIVACSRISARLRGS PPPKSNNEQSSLSTDRLTDSQRL PPLSRNAQQKG
15082	45450	B	15169	1	1911	



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15083	45451	A	15170	1	1569	MPIGKVGEYYIKGTLRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPFS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSAPKVR A EEN AALPSRCPPGPLPVAQPRGLLM GAHVSSAPAVGVGAASCHRLC PGFPDRPRPTLRSCIMNAVVG CDLRGQVYDPTGGWANEGTR DL SAVQGVPNHPGGRPCPTPQS SRQLPVVSRRPVVRPGGEAPP LDILPAALALHQSL LTPQDPRE DRPSPADLWAQDSWVGQPQEL PVGSRVRTGT EPDTHSGSVCTS RQGKD GSGPLARESSVRVILQG PSSAWMMFPEYTPGPRARAGT AVVGAMARQTVNVCLTKVRL QHPEGIPGGGRGPLVPKPVCTC/ IVDVKGSRV\WHVHICMSMGC RHVCLCGRSVGSRMCTAGQT PKLARQASIELPSMAASSTKSW WETGEVQAQSAAKTPSCKDIV AGDMSKSLWEQKGGSKTSST IKMDSVTT
15084	45452	A	15171	328	641	LLMRSWSLPSAPRGFSCSCLQP QYPCRTESWPQTEPVSPVSHR LLVLATAMLGSSME/RLAG*LG GPASGLDGLGVLFQPLINLGDG QVWLGLHTVTLLYGAV
15085	45453	B	15172	120	1458	
15086	45454	A	15173	1	440	IQQDSQAPLYS\IKETQRANTYL VEWEPGAETA FKTLKQALVQA PALSLPTGQNFSLYITERAGIAF GVLTQTRGTPQPVVYLKDGE IEHDYQQIIAQTYATQDDLLEV PLANPDNLNLYTDGSSFVVGIR RAGYAIVSNVTVLE
15087	45455	A	15174	288	376	NHWLLLTMDPRIQQDSQAPLY S\IKETQRA

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15088	45456	A	15175	777	1548	SKIQRDSQAPLYSNIETQRANT HLVEGEPEAEIAFKTLKQALVQ APALSLPTGQNFFLYITERAGIA LGILTQTRETTQPQVAYLSKEV DVVAKVWLHCLRDGEPIKHDC QQIIVQIYAARDDLLEVPLANP DLNLYIDGSSFVENGIRRAGYAI VSDVTVLENSLA AVTLQNRQG LDLLTAEKGGLCTFSGKECCFY TNQSGISSPLEDTT TAGPFLHPI QQEVARAIIGQFPTAFGVSCLE GRLRGEASWTSWVE
15089	45457	A	15176	1	1359	MGPEPKNTHPGSCTCLACSSS HKGFEC LAVEQGSYTPVASPIV GVKENQEILDLELKYNQTRSA VTRCVLGAASTARIKQAEEGGR SRLAESSGLR LPFVLELPALEHQ TPSSSGFELDLHQRLATWSQA FNYRLKDTLLASLLLRFWDS WLPCSSVCSWPIVGLHLVIIERN YSYQQGTETVSSWATGVSA ASVSATIPINRVQGHCGFLGKR CFYCCIGECNHS DHQGP GTVAG SWARGVSATASQIQVDLGKFS DDPDRIYIDVLHLTWRDVM LLL DQTLAFNENNV ALAAAEFGD TWYHRPVNDRMTAEQRDKFPT DIKTAAGIPWNH WLLLTMDPQ TQRDSQAPLYS\I*ETQRANTYL VEWEPEAE/TSFKTLKQALVQA PALSILTGQNFSLYVTERARLAL GVLTQTCGTTPLYQDEL RKKTL RHRDSESGFNQLEASAD
15090	45458	A	15177	368	5192	AAPAPQLGLGPCKLASHLLSQS HLSQSVRSEAEQKAGASPASSI QREPLFKDQLKAPLPEQKRRSL LTVPLLTFRAQKCGPGSPLVAR GGATDSWL VSEEFRLSDSTAPP TELRGQEATGITKPPASLHPQPH AWDWARGRDP RRHLLGTPELQ EHSEKTTTETLPADMGKLRTW ERKEATAGQAAEGAAGGIHFE ATSLLRPSSYVPQTQGALSTTY KEAKMDRDLHLTPILAAQRAR GPRIHSFPSDEMIEPS

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15091	45459	A	15178	76	969	KKSTALVIDNGSCMCKAGFAG DDAPQAMFPSTVGFPGHQGV VDMGQKDSYVGNEAQSKRSIL TLKYPIKHGIITNWDNMEKIWH HFYNELHGAPE*QPVLLTEDPL NPKDNREKMTQIMFETFNTPA MYVAIRDVLSLYAFGRITGIVM DCGHRVTHTVPIYEGYSLPHAI LHLDLTGWDLTEYPCILLFSEK SYELPDGQVITIGNEWFWCPEV LFQPSFPCMESCRHQTTINSIKK CDVDIRKD\NTVLSGGTTMYPG IADRMQKEITALAPSTMKIKIIA PPERKFSVWIGCS
15092	45460	A	15179	1	451	
15093	45461	A	15180	130	227	LMKMKKVM*RA*KEEERRTPP AEDDFEKDLEWLINENEKSDAS IIEVYIANSIHNNYITKCFAIL
15094	45462	A	15181	104	1715	KEEERRTPPAISVIPAAAFYTAY FLHKQKMENKNDTDSKKSEY EDDFEKDLEWLINENEKSDASII EMACEKEENINQDLKENETVM EHTKRHSDPKSLQDEVSPRRN DIISVPGIQPLDPISDSSENSFQ ESKLESQKDLEEEDEEVRRYI MEKIVQANKLLQNQEPVNDKR ERLLKFKDQLVDLEVPPLEDIT TSKNYFENERNMFGKLSQLCIS NDFGQEDVLLSLTNGSCENKD RTILVERDGKFELNLQDIASQ GFLPPINNANSTENDPQQLPRS SNSSVSGTKKEDSTAKIHAVTH SSTGEPLAYIAQPPLNRKTCPS AVNSDRSKGNGKSNHRTQSAH ISPVTSTYCLSPRQKELQKQLEE KREKLKREEERRKIEEKEKKR ENDIVFKAWLQKKREQVLEMR RIQRAKEIEDMNSRENDRPQQA FRLWLKKKHVEEQMKERQTEEL RKQEECLFFLKGTEGRERAFKQ WLRKRMEKMAEQQAVRERT RQLRLEAKRSKQLQHHLYMSE AKPFRFTDHYN

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15095	45463	A	15182	881	2040	MKAGWRQTQHLHDAGQLLHLI LPGEQGVARVQLRRDAAQAPH VNGHVVGVAQDHFWSVEPA LDVRVYCGGKTGGKQRRERREG RCGVEILMVGERKMENKEDT SKESEYKDESEKDLEGLTNEN EKSDASIIEMACEKEENINQDLK ENETVIEHSKQLSDPKSLQDE VSPRRNDFISVPSIQPLDPISDS SENSFQESKLESQKDLEEEDEE VLPRSSNSCVSGIKKEDSAKID VVTHSSTGEPLAYI/ASTYKLAY IPPLNRKTCPSAAISDRSKGNG KSN/HGQSAHISSVTSTYCLSP* QKEL/QKREQKREKLKREEEQQ KIEEEEEKKRENGIVFKA WLQK KREQVLEMRRIQRAKEIEDMNS RVSKTSLKNKFIQI
15096	45464	A	15183	873	4292	MVVS LGRVSSLS ESDPTGRVG R*VDCKVDRSIWAGVWISEDAP SEA*EIGGLGRK*MLSGGPQSPS KHVHIL*DQDSSSIPEPMGPCCP\ PHAPGKEPGTSCSIDTDGKLSG VSGDDS*T/GTDGGESEILLPQ *QLPVTLP SLPLPG*VRYTSR SR SRSRSTRDPGRKSRPISGLRGLC GDGATS/PLTPRHAPARDVQ/PG VSMAFAGDR\GDGGRRGASQ/ PAPPGPAVPRPCAQYSARAMPA SGRRES
15097	45465	B	15184	1	2214	
15098	45466	A	15185	3	361	
15099	45467	A	15186	1	1035	MKIHKSGGLKATPQLYASQFSG VAILATWGPHRPRNSSTSFSTQS KLRRPDESSVDFQKLMLCKEAT KKSKEKEPGMAFPQGH LIFSDV AIKFSVEEWKCLNPEQRALYRE MMLENYRNLES/VG*LFKIHDG VLINRARQYRSVPHRDIGKT*FL LPRNQERYSGL*VSVARN*KK WP*STHDRNQ RVN*VHTGEKP QKCNECGKTFSQKSYLQCHHR LHTGQKPYK*E*CDKVYSCRSQ LKTHRRIHTGEKAYCKVCEK AFWDNSCLSCQKRVHIGEPYT ALVMHKAIHTGEKPYTCNECG KAFSRKANLALYHRLHTGEKP YKCEECDKVYSRRSHLERHK
15100	45468	B	15187	1	1347	

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15101	45469	A	15188	1	1446	MWRETKRYAAVLLLTPHYSAS LLPDW/PNLYLHQSGHHVPGVY LKFG\SSNPIYPCVDSAKTVFPN APLHDRVQSVRRMGPFKGVFR KVFSNLGFEYSLSTWATMGSPG SLGVSPFGKTLFVESASGSLDA LWPTVEKEISSHKNYQKHSEKQ IYDVRIELTGLNALPNISLNFYK NSVSKLLNRKKGLIHLQPFILR LCVSLHKNREENLGITIQDVAM RLSALPNIVCRLYKKTASEVLK EWSTRWDEYTHHKEVSQKALP TLVKIYKKNICQLLNQNGPN SEMNALITKKS VKSASGYLES AALVEKEISSYKNYTEAFYNLL CDVYSHVTEMKLSSIEQIGNTL FVESASGVWRALRPRGKEVNDI FIDQIANSVLVDSSKDICKRFEA CGAMVKKENLHIKTRQKISEKL HWPFGAPRLTSLTGPEKTGKGE HPGAKARGELSGAPPLIHTRKL SLMSNVETLLEKLQGYTGAH
15102	45470	A	15189	1	966	
15103	45471	A	15190	157	531	GDHTTFLCLLMVNAEFKYNFK TIIS*DLLKKDSGQYGHFTIFFRS MSIGCFSIYLCIFNFFHQCFVAF LVEIFTFLVKCIPQVDSIEDTTFG HPEEATPHPFSSFFMRLEQFSHIF SSWPVSFTAH
15104	45472	A	15191	9	494	PTDRPRPRALAGARGPPGRAPR VPPAGGPRPSQYGHGGRPNPR HGWHDAFCPNNTPYR\ERPLDS RYLTPGPLDMRGDSGFRTGRGS DVGSLKPTDTRRNGKIYLNGS/ NVFYYQQLHPVHRGDGARRG FSGRTCLHRMVC*YEQTGHQS DQT*KARSAYG
15105	45473	A	15192	1361	2038	
15106	45474	A	15193	1376	1906	LAFPDGMASLIMMSLPAMRTL AWAMAVSGNCIPEGQFSALSC ADFGISPKLIL*SSSAPNYLAMG ISCPRADDLPEAGTAETDRACR SIPQYGTDLGWYPATAAGPQSE SVQGAV*PHRYEAG*ST/VWKP LKKK*KPLPRR*LARWQMIRFR KPSPLTTSKLTCAWRFLDFRW LE

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15107	45475	A	15194	1	1388	MIEHPRRRDNYRQSGPPVADKP TTKGEPLISDIVSDAQGANLLIP VDETPPVINDEQSTSTPLTTAQT MALAAVADKNTTKDEKADDL NEDVTASLSALFAMLPFGDNTF KVTDAFSTVLPTEKPTLFTKLTS EQLTTAQPDAPGTPAQPLTPL VAEAQSKAEVISTPSPSISGVT RSKMRQREWLVLPPEDSLVIRR SNKTSQLPAFNVPLSAAKAAAS KPWRASNTACRNSRPSKVCSAE GEQWFSASGRGEIHSQSPARDM AQMCKLAAEGHFAEARVINQR LMPLHNKLFVEPNPIPVKWACK ELGLVATDTLRLPMTPTITDSGR ETVSGDETYLEAAPLAELHAPA GMILPVTSGDYAIPVTNGSGAV GSYSATEPGAGSDVGS�KTTY TRRNGKIYLNGS/NVFYYQQR HPVHRGDGARRGFSGQTCLHR MVC*YEQTGHQSDQT*KARSA YG
15108	45476	C	15195	1	1905	
15109	45477	A	15196	285	1706	YARVHSGRSSIRRSIPVSICIRSSI RGCVPVVHCIRSSIRRSIPVDHL YQIIHTKKHTRCPFVSDHPYEE APDYSASLLPDWLPVPSSKVV TYPGFTSICGYYTTSSKACFSVF AWCFTSDVPGRFSEDEDEDSE MWSLTALMGVMGGWKTSARS EVSILCSTSSKVIHSSYPYADRA FQVWSLDARFAHINKPFGVDRF SGEAPSRAITTMYGKVLNRPA TGTARHLVPPDVPVPHGGESN KPRVQTTVSSGISRLSIPISASAL QNVDPKTHDISNITDTVYHCPL SQSSRWYWRFPVRSPLSNGQ TAVRPGGSRAGAAGGPLSEYS GSGFGVMKWTKDQLTVTVKV HHLPEVVEFLYYKQGGWLSVL FGNDERKLNGHYAVYYVLSRE KGTKCWI/TDSMDYRQR/PAPT NDAETYEFINELGARKTTVPPI GPLHVT/DEPGHLRLFVDGENI IEANNE*IHRTQC
15110	45478	A	15197	3	1396	
15111	45479	B	15198	1	1399	

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15112	45480	A	15199	283	796	FVGVKSAGNRLKTIDELANESR SSVGLTQAALKTLESSGAIRIER RGRNGSYLVEMDNKALLTHVD INNVV CAMPLPYTRYEGLASG LKAQFDGIPFYAHMRGADIRV ECLLNGVYDMAVVSRLAAESY LPQKGLCLAL*LGPPPYVGE\YQ L*QVKAKSEYVKRVGHV
15113	45481	A	15200	48	3376	
15114	45482	A	15201	49	681	DPGADRRGSVWGLSDLRNTYN ALYLTHSGRLSECPTPANEEKE PTNHNRTLNTQTKKKKTRT KDCTTRNKNSTRPGSGIAGPSY YTVAGPPSAIDPRWLRPTPPAL DPQ*MPHTSKRGKRADQSQPN ANKPNTEREKKDKNEGLHHKE QEQ\QRP GSGIAGPSYYTVAGP PSAIDPRWLRPTPPALDPQTEPL IFQQLEIDHYVAGLTHEVMSLS HLTLVMRWGSVSAHLAHWA RCRWISTELTPNSITSTSSPLKD CSSSPAMEQSWLENDFDELTED KKTCLCDH
15115	45483	A	15202	3	587	
15116	45484	A	15203	3	774	MVLMAGFTAGNEKGELVVLG RNGSDYSAAVLAACLRADCCEI WTDVDGVYTCDPRQVPDARLL KMSYQEAMELSYFGAKVLHP RTITPIAQFQIPCLIKNTGNPQAP GTLIGASRDEDELPVKGISNLN NMAMFSVSGPGMKGMVGMMA ARVFAAMSRARISVVLITQSSSE YSISFCVPQSDCVRAERAMREE FYLELEESLLEPLAVTERLPIIS VGSDGNPPPCGGISPKFFAALA PRPISKFVALCSGIPF

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15117	45485	A	15204	1474	1511	HS*VPANLYMELKACFTGA/NE KGELVVLGHNLA VSYFIALAAS LRADCCEIWTDVDGVYTC DPR QVPDARLLKSMSYQEAMELSY FGAKVLHPRITITPIAQFQIPCLIK NTGNPQAPGTLIGASRDEDELP VKGISNLNNMAMFSVSGPGMK GMVGMAARVFAAMSRARISV GLITQSSSEYSISFCVPQSDCVR AERAMQEEFYLAELKEGLLEPL AVTERLAHSVVGDMRTLRLGIS AKFFAALARANINIVAIAQGSSE RSISVVVNND DATTGVRVTHQ MLFNTDQVIEVFVIGVGGVGG ALLEQLKRQQSWLKNKHIDLR VCGVANSKALLTNVHGLNLEN WQEELAQAKEPFNLGRLIRLVK EYHLLNPVIVDCTSSQAVADQY ADFLREGFHV VTPNKKANTSS MDYYHQLRYAAEKSRRKFLYE HNTFVSPHIRPLIERRGRSSTRD KWCARPSTERQQDNSAARILSC QQGNTSFEHTSSIRVGTTNSLN
15118	45486	A	15205	198	462	



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15119	45487	A	15206	31	1981	RWLMRGMGIALPAAMASTVSP STIAETPEPPPLSDW/LRASG/DV WVHLLGLDPLHSSLLLSICLFSR SLIWIF*LQP*SV/ALAFQMGAS LFASNIGVIEGEGPQAKPL*CLT VSYFEMLNNLNAQGPKGKLS CQCLSLQVMTMPEYLKKRWTL GQRSQWPQMHSVFS*LPF*A DIFAGAIFIKQPSGEGKYMRT G*NALVLFSLGGLEVVIINIG CLRFQ*DISFYSDAFLAFNEVGG YESFTEKYVNATPSVVEGDNLT ISASCYTPRADSFHIFRDAVTGK GR*LPLKSSPGLFHECVTFSRQV IVQRCL\CGKDMSHVKAACIMF LFV*WLLVLPWASLDSLLNSSP DMVACVVPSECVISTLSGLARQ CPATNQCLYPFPAPGLRGLMLS VMLASLMSSLTSIFNSASTRTK AQWK*L*CFCLMFKLCCFLLRI FVLLLTVVSVVWVPLVQVSQNG QLIHYTEI***LT*ISFSYFLNILI FFLLLQGAFWGLMVGLAMGL IRMITEFAYGTGSC LAPSNCPKII CGVHYLYFSIKVPFYTYTIANICL LLMHFCMVVPQLYRLCWVLR NTTLTRISSSFVI*IFCNHLLIFVP DYPEKSRGCLKKAYDLFCGLQ KGPKLTKEEEEALSKKLTDTSE
15120	45488	B	15207	1	1392	
15121	45489	A	15208	57	1523	
15122	45490	A	15209	473	589	LPRQLALSCVVCQTLVPAIRCI DWGWLF*W*SVTPVM

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15123	45491	A	15210	1	1297	MGKIMSSYQHVDLIVDCDFEA YHRQPSSGTSVVTGPSAQUALI TEKIVTYHWDQHVGDLVLNI YCVINVLDTVKAVIDDRFMG GITTINLQLMAIIVRYFFASGSA YIVAMLVPFAMLANVSGAPLM LTALALLFSNSYGGMVTHYGG AAGPVIFGVGYNDIKSLCFDER TRIDVADTYASNWRSRCNQITF NGECPNTRQHIAAVRRGIDTLL MNDYLRLKQIIDISTRIAGTANN GDFTGQWITAANTVNFQIVAGT HNCHQYFIALLRIFILKYIQDR AREGLKQRDLAEALSTSPQTVN NWIKRDALSREAAQQISEKFGY SLDWLLNGEGSPKKDLESNIPP ESEWGTVDADWDKNTPLPDDEV EVPFLKDIEFACGDGRVHDEDH NGFKLRFSKV\VQPRVGC*QG* G*LLYLDSV**GDPLEST
15124	45492	A	15211	62	301	SWMSSPRAFSSSTCLETAAPTR MATALTSAACRLPPAAGSGSP WAPAPYRWRARRRTGPMSTR Q*RTSQPCPEPAAASR
15125	45493	A	15212	1	1665	MQDSAHLRRLPPAASRRVWLA LGSCPLPLESSPAHRAYERPSVA HQPAVPGARRSLEVPSEVPLTV PALTPPRIPAMLTAVCGSLGSQ HTEAPHASPPRLDLQPLQTYQG HTSPEAGDYPSPLQPGELQSLPL GPEVDFSQGYELPGASSRVTC DLESDSPLAPGPFKLLQPDMS HHYESWFRPTHPGAEDGSWWD LHPGTSWMDLPHQTGALTSPG HPGALQAGLGGYVGDLHQLCAP PPHPAHHLPAAGGQHLLGPP DGAKALEVAAPESQGLDSSLD GAARPKGSRRSVPRSSGQTVCR CPNCLEAERLGAPCGPDGGKK KHLHNCHIPGCGKAYAKTSHL KAHLRWHSGRPFVCNWLFCG KRFTSRDELQRHLQHTGTGKKF PCAVCSRVMRSDHLAKHMK HEGAKEEAAGAASGEGKAGGA VEPPGGKKGKREAGSMASSPD SPCSCDCFVSVPPASAIPIVIFA HELGPTPGRGAGGGVCPRRHS HSWEPAPGL*AVGGGGGASGQ AGDRGCHA*EAGRS/SCSRRGS GL*RAGTS*ISASS

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15126	45494	A	15213	3	471	GRPSSPGVHGSSTQTPAHVGSF PGCGPIPPD/ACRRSKIRGPGGW GGVGG/CRDGRNSR/DLRNLPC PFLFLPGP*AAAPSPPWPAAGA APCQQCLDGWPHSYSHGHSSA AGRGGICRSPLLAGELRPPGIQ YNGRTEVRGILSGSPCPPFSGAG
15127	45495	A	15214	3	449	PHQDLEEAMVLL*PPSP/PAWPT MRTRKRPSSKVSSTSRLRKSIM TTYAVPSRAPTPA*PSASKPTNA FS/HMVGSEPRSHAHLDRHRD SR*RKPRPLSGPRTLGGKSLRGS AGAGRGGVPRRPLPENLDAPL WNSPGNSAGAAVQLA
15128	45496	A	15215	26	1126	EGPSSEAAHPGCTPREQDGM DPARKAGAQAMIWTAGWLLL LLLRGGAQALECYSCVQKADD GCSPNKMKTVKCAPGVDVCT EAVVAVETIHGQFSLAVRGCG SGLPGKNDRGLDLHGLLAFIQL QCAQDRCNAKLNLTSLRALDP AGNESAYPPNGVECYSCVGLSR EACQGTSPVVSVCYNASDHVY KGCDFGNVTLTAANVTVSLPV RGCVQDEFCTRDGVTGPGFTLS GSCCQGSRCNSDLRNKTYFSR IPPLVRLPPPEPTTVASTTSVTTS TSAPVRPTSTTKPMPAPTSQTPT QGVEHEASRDEEPRLTGGAAG HQDRSNSGQYPAKGGPQQPHN KGCVAPTAGLAALLVAAGV
15129	45497	A	15216	1401	1983	AQRAQALECYSCVQKAD/DGC SPNKMKTVKCAPG/VDVCTEA VGAVE/SHPFWIWPRPFNAAPP LSAWPGPYDTALQARPLY*QL QARGAES*ELVH/GQFSLAVRG CGSGLPGK/NDRGLDLHGLLAF IQLQ/QCAQDRCNAKLNLTSLRG LDPAGTSPVVSVCYNASDHVY/ KGCDFGNVTLTAEPPTVASTTS VTTSTSPQ

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15130	45498	A	15217	1	964	MNVKGD TQGNTRVRVDNIGG VGAQTVNGIELIEVGCNSAGNF ALTTGTVEAGAYVYTLAKGKG NDEKN\SPSVYRP/EAGSYISNIA AANSLFSLHRLHDRHSLQPLKI LVTGGAGFIGSAVVRHIINNTQ DSVVNVDKLTYAGNRESLADV SDSERYVFEHADICDAPAMARI FAQHQPDV MHLAAESHVDRS ITGPAAFIETNIVGTYVLEAAR NYWSALDSDKKNSFRFHHISTD EVYGDLPHPDEVNNTTEELPLFT ETTAYAPSSPYASKASSDHLV RAWKRTYGLPTIVTNCNNYGY PYHFPEKLIPLVILNALE
15131	45499	B	15218	44	405	
15132	45500	A	15222	1	498	MTRSLLSVFEE DAGTLTDYTNQ LLQAMQRVYGAQLNLLHTELA KQL\ETQWFYLSYNSEKRISQTL SAMWRGRAAQ/TQGHVWVG MVEAVCSKVSTLKD LFGLASN EHDLSMAKYSRLPKKKENEKL AAFGQPTWCDPAERVGFLEPV GPDPGAKSAPSPDRASTL
15133	45501	A	15223	1	1224	
15134	45502	A	15224	1	1353	
15135	45503	A	15225	1	2580	
15136	45504	A	15226	1	3117	
15137	45505	A	15227	1	1260	
15138	45506	A	15228	1	2142	
15139	45507	A	15229	1	1413	
15140	45508	A	15230	1	4049	
15141	45509	A	15231	1	381	MLMLNIGFKNFQFEHLKCSHGS YSEDIGFPNAGALSGAMFLLEE KHLLFGLKEEERLRASIRRESQ QRRMREKQHQRGLSASY\WNLI DTMRRRKARSP/YSLAAIKNRY KGGIRDQKPSYDSLNL CMT
15142	45510	A	15232	1	467	DHSSSPAREQNWMEN\EFDELT EVGFRRWVITNSELK KHVLTQ CKEAKNLEKRLGELLTRITSLE KNINDLMELKNTARELHEAYTS INSWINQAEERLSEIEDQLNEIK REDKITEKMKNSTTVRVAASM QSKLLQGVAEEGPLRLTR SASF
15143	45511	A	15233	1	1140	
15144	45512	A	15234	1	2640	
15145	45513	A	15235	1	714	
15146	45514	B	15236	1	546	
15147	45515	B	15237	1	735	
15148	45516	B	15238	50	1603	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15149	45517	A	15239	1374	2220	QAENSHININKKDVHSETPSEG HQRKRPKDHSSSPAREQNWME N\EFDELTEVGFRRWVITNSSEL KKHVL TQCKEAKNLEKRLGEL LTRITSLEKNINDLMELKNTAR ELHEAYTSINSWINQAEERLSEI EDQLNEIKREDKITEKMKNSTT VLVSTWGSQLEQNNLPHIISPLF HSTHDLNISFYGGCLLQACSSK LLQGLAEGGPLRLTRSASFFAA KLCLTKHFLPTMILIKSRKTP DTQPRRLYLLQGVDQTSRKG PTALNIRQKTFAAAPPHR
15150	45518	B	15240	1	1311	
15151	45519	B	15241	46	212	
15152	45520	A	15242	3	371	EPLPPEPPAVPSEVELQHLRKEL ERVAGELQSQVKNNQHISLLNR RQEERIREQEERLRKQEERLQE QHEKLRQLAKPQSVELK\SQEV QSLQQQPDHFLGHL\QQYVAT LSAARWAAYQQLD
15153	45521	A	15243	392	558	
15154	45522	B	15244	52	689	
15155	45523	B	15245	400	603	
15156	45524	A	15246	5	1158	RKFWRWMVVMQAQHSQAAQ GQRR**VSKGP**PGPMGGPVL GHWWHSGGISLAVPSLPPPGKS SVFLFLFSASFSDMKLNPGTVSP RLIFGSYDDGFLVETVVKFDFQ LWQKTPLHRAAGERRRAEQRG KLSFVMP

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15157	45525	A	15247	1	1808	MAEETQHNLAAAKKKSATGF HREGPTSSATLKDLESPCQERA VVL DSTSVKISRLKNTIKSLKQQ KKQVEHQLEEV TAPDNLVPWV GLSWGIGGILGACLLLCHLCLP LEKKANNERQKAERELEVQIQT LIIQKEELNTDLYHMERSLRYFE EESKDLAVRLQHS LQCKGELES ALSAVIATEKKKANQLSSRSKA RTEWKLEQSMREEALLKVQLT QLKESFQQVQLERDEYSEHLKG ERARWQQRM RKMSQEICTLKK EKQQDMRRVEELERSLSK LKN QMAEPLPEPPAVPSEVELQHL RKELERVAGELQSQVKNNQHIS LLNRRQEERIREQEERLRKQEE RLQE QHEKLRLAKPHCAF SRS *TMRTRAHLQLEQQVKELQE/Q ALARVFLQVELKSQEAQSLQQ QPDHYLGHPAAEHLEAASQQN QQLTAQLSLMALPGEGHGGEH LDSEGE EAPRPMPSVPEDLESR EAMVAFFKSAGASAQEKQAQL QE QVKEQ RVCCQRLAHPVASA QKEPEAARGPGAPGPGGESSF MDHLKEKADLSE/PGEKRTLLH P/PTG/GDRRHQKTHHLLSEPGG CAK/DAALGPGHHQAGAQQGGD
15158	45526	A	15248	2085	2700	YPGKRGLEWT*ANSNRPA AEG PDE\SSSLPATEQSWMENDFDE LRKEGFRRSVITNFSKLKEDVQ THRKEAKNLEKGLDEWLTRINS IEKTLNDLMEMKTMA*ELHDT CTSFSSRVDQVEERLSVI*DQM NEMK*EEKFREK\RVKRNEQSL QEIWNYVKRPNLHLIGVSEIDR ENGTKLENTLQDIFQENFTYLA RQANIQIEI

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15159	45527	A	15249	378	1744	QTERNSININKKDIHTKTPSVRH HHQRPKLHKTTKMGKKHSRKA ENSKNQSGSLPPKECSSPAVE QSWTENEFDEFTEEGFR\RIESQ MNEIKGEEKFREKRVKRNEQSL QEIWDYVKRPDLRLIGVPDSG ENGTRLENTLQDIIRENFPNLR QASIQIEIQRTQPQRYSSRRATP RHIIVRFTKVEMKEKMLRAARE KELKIKKLTQNCLTTWKLNNLL LNDYWVHNEMKGEIKMFFETN ENIDTTYQNLWHTFKAVCRGK FIALNAHKRKQERSKIDTLASQ LKEIEKQEQTHSKASRRQEITKI RVELKEIETQKSLQKINESRSWF FEKINKIDRPLPRLIKKKREKNQ IDTIKNDKGDITTNPTEIQTISRE YYKHL YANKLENLEEMDKFLD TYTSLGLNKEEVESLNTSITGSE VEAIINSIPTKKKSRTRWIHSRIL PEVQGGA
15160	45528	A	15250	935	1269	LIEGKLTERNSININKKDIHTKT PSVG/PPSSKTKDRSSLPAIEQS WMENDFDELTEVGFRSSVITNL SKLKEDVRIPHKEATNLEKRLD EWLTRINSIEKTLDDLMEKTM
15161	45529	A	15251	401	497	KTFSPFYFS*RRRTVRDINGFTE Y*EPEKLLG
15162	45530	B	15252	220	940	
15163	45531	A	15253	1	1476	

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15164	45532	A	15254	1	2423	MNGKNKTNIYQEPTVCQALHW TLARIGKEEPRRGQRGEGLLCS RERQPRGLSSPGTAAPAAPAAP TPPALPGHRTSRGSPEGPEPILR RGGSADAPGRVKTWVNRPAAF VGKCLGDGSADTACDQAMKG QRGSNRKRKTSHSLTFPTSSDM HAGGLSAAHPCAHSRAPPPASP SPYKGS LGTRTDGLTDSRADSA ASGARALGVDGQPQSPRRRAP PRPVGADGSSRGPPQGRRRVER RGPATQPGDSRALPEPRGVPAV HPAGSGSEWERPPAAPSPPEHR DKMLPGLRRLQLASARRPQFPF EAARWVWSPCFSSGTLCPSPFQS ERPLLPGFQASFP GTTLHQRLCP VAALHSGSGKGQKWQQSHCYA AAVMEEPPAPGRSSESLQGPLS WAGGAPASACLLMLLALPLA APSCPMLCTCYSSPPTVSCQAN NFSSVPLSLPSTQRLFLQNNLI RTL GARHLWVQPAHPVALLQQ PLHHLPGHFPLAQALEELDLGD NRHLRSLEPDTFQGLERLQSLH LYRCQLSSLPGNIFRGLVSLQYL YLQENSLHLQDDLFADLANLE PTSFLHGNRLRLTEHVFRGLG SLDRLLHGNRLQGVHRAAFR GLSRLTILYLFNNSLASLPGEAL ADLPSLEFLRLNANPWACDCR ARPLWAWFQARVSSSDVTCA TPPERQGRDLRALREADFQACP
15165	45533	B	15255	47	482	
15166	45534	A	15256	1	636	MRDPNTRKSRGFGFVTCATVE EVDAAMNARPCKVVGRTVEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSQGRSGSGNFGGGRGGGF GGNDNFRGGNFGHGGFGGS HGGGGYGG/SGDGYNGFGNDG GGGSYNDFVNYNNQSSHFGPM



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15167	45535	A	15257	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGTLTDCVV MRDPNTKRSRGFGFVTYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMDRGSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQRGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
15168	45536	A	15258	1	286	
15169	45537	A	15259	1	1674	
15170	45538	A	15260	235	1370	KREGEGRLADTFVSLLSARGR RRRSIVKVS LHPAVMSKSESPK EP\EQRLKLFIGGLSFETTDESLR SHFEQWGTLTDCVVMRDPNT KRSRG\FGFVTYATVEEVDAAM NARPHKVD\GRV\EPKRAVSR EDSQRPGAH\LTVKK\IFVGWH* RKTTFWGGKKKRAKKHHLRD YFEQYGK\EVIEIH*LDR\GQWP RKRGF\AFVTF\DDP\DSVDKIVI QKYHTVNGHNCEV\RKALSKQ E\MASASSSQRG\RSGSGNF GG GRGGGF\GGN\DNFG\RGGNFS\ G\RGGFGGT\RGGGGYGG/SVG DGYNGFGNDGSNFGGGG\SYN DFGNYNQ\SSNFGPMKG\GNF G\GRSSGPY\GGGGQYFAKPR\N QGGYGGSSSSSYGSGRRF
15171	45539	B	15261	1	660	
15172	45540	A	15262	2	486	KMRQRERAQGGK/VAPAPAVV K/KQEAKKVVNPLFEKRPKNFG IGQDIQPKRDLTRFVKWPRYIR LQRQAILYKRLKVPPAINQFT QALDRQTATQLLKLAKHYRP/G DKGALAKLVEAIRTNYNDRYD EIRRHWGNNVLGPKSVARIAKL EKAKAKELATKLG

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15173	45541	A	15263	3	845	PPKMPKGKKAKGKKVAPAPAV VKKQEAKKVVNPLFEKRPKNF GIGQDIQPKRDLTRFVK\WPRYI RLQR\QRAILYKRLKVPPAINQF TQALDRQTATQLLK/LVAHKYR PÆTKQEKKQRL\LARA\EKKAA WQKGTSPTRPP\VLRA\AGS*HP VTTLVE\NKKASAGWWIAHRR GFPSSLVVFLP\ALCREKWGSPY \CHKGKARLG\RLVTRKTCTTV AF\TQVNLGRQRALLLKLVEAI RTNYNDRYDEIRRHWWGGNVLG PKSVARIAKLEKAKAK\ELATK
15174	45542	A	15264	1	5796	
15175	45543	A	15265	1	2212	MPRVEKNIPGRNRNSKGFEDPLE VTQDVTREWAKKVVWKREKA SKINGAYFCEGRVRGEAIRRT MKMRQQATLTMTVDKGDNVN ISFKKVLKEEDAVIYKNGSFIH SVPRHEVPDILEVHLPHAQPD AGVVSARYIGGNLFTSAFTRLI VRILPPQPENIKISNITHSSAVIS WTILDGYSISSITIRYKVQGKNE DQHVDVKIKNATITQYQLKGLE PETAYQVDIFAENNIGSSNPFS HELVTLPESQAPADLGGGKML LIAILGSAGMTCLTVLLAFLIILQ LKRAVQRRMAQAFQNVREEP AVQFNSGTLALNRKVKNPDP TIYPVLDWNDIKFQDVIGEGNF GQVLKARIKKDGLRMDAAIKR MKEYASKDDHRDFAGELEVLC KLGHHPNIINLLGACEHRERGD RRHLENQVTPTLILRFSNTLSKR HTRRLYPEPGSEGPTPTEPSLL AQQSEIKLHGGSEPPLLIFRQTG SGVDLQQTPTNLQLRVLTVRR KTDKRKGHPHQKPCSSPSSKT KEGFRRSNYSKLKEEVQTHGK EVKNLEKKLDKWLTRITNAEK SLKDLMEKTKARELCDECASL TSQFDQLDKRVSMEDQMNE MKQEEKFREKRIKRNEQSLQEI WDYVKRPNLCLIGAPESDGEN GTKLENTLQDIIQENFPNITRQA NIQIQEIQRTPQRYSSRRATPRHI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15176	45544	A	15266	1	743	PPLLIFRQTGSGVDLQQTPTNLQ LRVLTVRRKTDKRKGPHQKPI CSSPSSKTKEGFRRSNYSKLKEE VQTHGKEVKNLEKKLDKWLTR ITNAEKSLKDLMEKTKARELC DECASLTSQFDQLDKRVSVME DQMNMKQEEKFREKRIKRNE QSLQEIWDYVVRPNLCLIGAPE SDGENGTKLENTLQDIIQENFPN ITRQANIQEIQRTPQRYSSRR ATPRHIIVRFTKVEMKEK\MLR AAREK
15177	45545	A	15267	1	618	
15178	45546	A	15268	200	618	EVSRNNTRTKTSYKQDMNTSK GF*KDTST*PVT/KERSSSPATEQ CWTFENDFDELREEGFRRSNYSE LKEEVRTNGKEVKNLEKKLDE WLTRITNAEKSLKDLMEKTM ARELCDERTSLSSRCDQLEERV SVMEDEMNM
15179	45547	A	15269	158	594	SGSSICCSPISTVLQPPLTPRQT GSGATSSK/SPTDLQRECSSP AKEQSWMENDFDELREGFRRS NYSELKEEVQTHGKEVENLEK KIDEWLTRITNAEKSLKDLMEK KTMAREQCDECTSLSSRRDQLE ERVSVIEDQINEMK
15180	45548	A	15270	3	1453	LSDLELAAQSIIFIFAGYETTSSV LSFTLYELATHPDVQQKLQKEI DAVLPNKERSSSPATEQSWTEN DFDELREEGFRRSNYPKKEEV RTHGKEVRNLEKKIRQM\VTRII NAEKSLKDLMEKTMARELRD ECTSLSSQFNQLEERVSVMEDQ MNEMKKEEKFRRKRIKRKEQS LQEIWDYVVRPNLRLIGVPESD GENRTKLENTLQDIIQENFPNLA RQANIQEIQRTPQRYSSRRAT PRHIIVRFTKVEMKEKMLRAAR EKEIQTIREYYKHLYANKLEN LEEMDKFLDTYTLPRLNQEEVE TLNRPITGSEIEAII NSLPTKKSP GPDGFTAIFYQRYKEDLVPFFL KLFQSIEKEGILPNSFYEASIIIP KPGRDTTKKENFRPISLMNSDT KILNKILANRIQQHIKKLIHHDQ VGFIPGMQGWFNIRKSINIIQHI NRTNDKTHMISIDA EKA FNKIQ QPFMLKTLNKL
15181	45549	C	15271	111	269	

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15182	45550	A	15272	94	4505	YLDMMSFVQKGSWLLALLHP TIILAQQEAVEGGCSHLGQSYA DRDVWKPEPCQICVCDSGSVLC DDIICDDQELDCPNPEIPFGECC AVCPQPPTAPTRPPNGQGPQGP KGDPPGPPGIPGRNGDPGIPGQP GSPGSPGPPGICESCPTGPQNYS PQYDSYDVKSGVAVGGLAGYP GPAGPPGPPGPPGTSGHPSGSPGS PGYQGPPEGPGQAGPSGPPGPP GAIGPSGPAGKDGESGRPRPG ERGLPGPPGIKG
15183	45551	A	15273	1628	1832	RRRRKARERRRLAAEQGRRMK EQCKDGFSE/QASGALKLMGSN EGEFKAEGNSKFTYTVLEDGCT KHTG
15184	45552	A	15274	1	362	
15185	45553	A	15275	1076	1240	LRQLL*LCPSWRLCLLGGWQL HLFF*RHHFVHLVSQRCSIAMS PSPRRCFSLHL
15186	45554	B	15276	480	1167	
15187	45555	A	15277	3	379	
15188	45556	B	15278	13	369	
15189	45557	A	15279	112	1112	WPPASPSASVIRTVKEFALTNP KSSTKETERKETKAEELDAEV LEVFPHTHEWQALQPGQACPC RNPTYGLNLQTGEREAKLQYE DKFRNLLKGKRLDINTNTYTSQ DLKSALAKFKEGAEMESSKED KARQAEVKRLFRPIEELKKDFD ELNVVIETDMQIMVRLINKFNS SSSSLEEKIAALFDLEYVYVHQM DNAQDLLSFGGLQVVINGLNST EPLVKEYAAFVLGAASFSSNPKV Q/EWEAIEGGALQKLLVILATE QPLTAKKKVLFALCSLLRHFPY AQRQFLKLGGQLVLRTLGAGE GHGGARRARGHTALRPCHREK CSPRRRLS
15190	45558	B	15280	54	385	
15191	45559	B	15281	274	776	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15192	45560	A	15282	362	1323	HQLGRSALLDTRTVSMQKAKN GDAVTEPQVA/ENEANGKDTA EVDLLTKELEDFEMKKATARA VTGILASHPCSTDVHIINLSLTF HGQELPSDTKLELNSVRHYGLI GLNGTENSMLLSAVGKHGVPPI EHIDIYHLTREMPSPDKTPLHSL VTVSSPRQRDDMSDGHLCSTAR RHTDIRDDRSPDAPDTARSLAR STITTRRIFALATPSRTLQQVCS ALAYTSHPAARTQPLASTALTR RYMLPSPQLPSLRDHRRTNPLH SAVATIPHTTTGEADVSLLCIGL STLHYALVYHVSULTALSAQS MSATDASIIFFEPKR
15193	45561	A	15283	3	537	
15194	45562	A	15284	1	455	MPRPEKLGKTQVPPLAECLTKD SFLGQKQASLGPLTFRDVTIEFS LEEWQCLDTVQQNLYRDVMLE NYRNLVFLVISS/HFTQDFWPD QSIKDSF/QRIILRTYARCGHKN LRLEKIVKVMRKHQIIHTGKK PYKCEECAKLLASQPLENMR
15195	45563	A	15285	1	397	FAVLMAHYDVQEEDPVLTVIT YMGLSVSLLCLL/LAALTFLLC KAIQNTSTSLHLQLSLCLFLAHL LFLVAIDQTGHKVLCSIIAGTLH YLYLATLTWMLLEALYLFLLTA RNLTVVNYSSINRFMKKLMFPV
15196	45564	A	15286	191	1332	AIETQAITDNCSEERKTFNLNV QMNSMDIRCSDIHQGDTQGSPVI AFISYSSLGNIINATFFEEMDKK DQVYLNSQVVSAAIGPKRNVSL SKSVTLTFQHVKMTPSTKKVFC VYWKSTGAG/CSQWSRDGCFLI HVNKSHTCNCNCSHLSSFAVLM ALTSQEEDPVLTVITYVGLSVSL LCLLLAALTFLLCKAIRNTSTSL HLQLSLCLFLAHLFLVGIDRTE PKVLCNIIAGALHYLYLAFTW MLLEGVHLFLTARNLTVVNYS SINRLMKWIMFPVGYGVPAVT VAISAASWPHLYGTADRMLAF KATAQLFILGCTWCLGLLQVGP AAQVMAYLFTIINSLQGFFIFLV YCLLSQAKHKFTPMEVPRQN HRCLQQN
15197	45565	A	15287	263	397	GRPPAPAARVSGPASVSAG*KR VSASGSGVGRSMRRGSALLPPN F

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15198	45566	A	15288	1	278	MKFHDRGQM QPKPSAEAVNS APQREPEGSILRAADPLVWAAK AMSASR/RGS/CGGSSADPRHTE RTPTEPDADTRFQPAETLAGPK TRAAGAG
15199	45567	A	15289	5	545	SFMTEAKSSPNAQQRLSTQRP SESRKVPSSSELQTLSCGLQRPCL HPGRPGDPYYASASTRTRSPS ARHAVWGRRGCYPEA/AVRAR EGPHPTLAPASTYGLASPPRAD SAHRPRHRSLTRLLPNRKLGGG SADPRHTERTPTEPDADTRFQP AETLAGPKTRAAGAGGQPWDS ANASPP
15200	45568	B	15290	121	822	
15201	45569	A	15291	1	1308	MLRMVGIEISNGQWSTPPCQVL HLEGNDIYNPKEQGLGNTCRW GWMAAGTRNLCWAPFPLNP VASLVLHSTIQIALQESKDRVL GTLINSPLVTSTDKANWSLRLA LEVGDGGGLVGLSPQPVGSGA MSRCPNCTRKLIGSGISPTSSTL AEEQGSVVKTHSHQGGARCSK EKGWQILILVAGLCQLVVVV QNVGVRKIPRKYLAALRVAIGH ALAIERRRIRVDVADQAQDTR DDRSFGRDRNRDSKTDTDWR ARSATDSFDDYPPRRGDDRFGD KYRDRYDSQYGRGYWYEYR DGPCRDMDRYG\GGSGRRAFG SGY/RRDNDYRGGDRYEDRY NRWDDGSCSSRDDFSRDDCRY NDRRPPQRPKLNLPKHNTPKGD DSSASTSQSSRASVFGGAKPV DRAARETKVEEWLQKEQDKLQ HQLDEAKLE
15202	45570	A	15292	2	293	
15203	45571	C	15293	56	298	
15204	45572	A	15294	1	273	TRGPWCDSVLRGCSLEQSFIS VRLLSYLSACRHPMEDSMDMD MSPLRPQNYLFG\SLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS

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15205	45573	A	15295	3	1024	CGGIHSVLRGCSLEPAFFYLRSA FSPTISACRHPMEDSMDMDMSP LRPQNYLFGCE\LKADKDYHFK VDNDENEHQLSLRTVSLGAGA KDELHIVEAEAMNY\EGSPIKVT L\ATLKMS\VQPTVFPWGAFEIT PTQWSLRLKCG\SGPVHISGQH FSKLLEEDAE\SEDEEE\EDVKL\ LSISGK\RSAP\GGGSKVPQKKS KTLLLMKDDDDDEED\DDDED DG*WMDFGWMEEAEEKAPSE RNPIRDTPAKNAQKSNQNGKD SKPSSTPR\SKGQESFKKQKEKTP KTPKGPSSVEDIKAKMQASIEK GGSLPKVEAKFINYVKNCFRMT DQEAIQDLWQWRKSL
15206	45574	B	15296	1	1107	
15207	45575	A	15297	1	1968	MLASMGVVAKEMKYLSSPYPO HAFHTRIKSLMTVNFQAQLWL PNEAGPTGDGDWGGDTHGCPS FSPHLPRFIQKQPWGTGRRLQ EHFSCSLVPVIPSRDIEAFHLH ADLILNTLPSLVIIIGQIESHSEEL RARVSTYESGEDTIQCITVTWK PKYGATRWDKPGSPDGPLEER RLEDLSTRNNSIRLFRGCGYRV KQNSSQRPKNKVCGLPDTGVLL QTKCGLVRNSQRSQAQNTNKQH EELFSTAGIPENLSRRQEVLPQH GFTGWVGWTWKLTSGEVTF HHLSATHKLSHASCRQGNFKP KGAMSVTRSTVHPLAFLSAEI NGKCGRPCVFLGIWAINCGMAI LYERLSALVCVSVSERHLDYT MRFLFDIPPSTLEARIGSPLWAL SLHPLRSSTVTSSVELILPECTV AVLEIQYVFLGDTILFTTVGKA RSGTRDRDGGRAQIMQVLQK GRELDAAAQPEGQLLREVRVL GVFPFIPRARVDAWLHTVAVG SADEAHGLLGAAAASSTGGAG ASVDGGSQAVQGGGGDPRAAR SGPLDAGEEEKAPAEPTAQVAD AGGCASEENEVLREKHEAVDH SSQREENEERVSALKENSLQQN NDDENKIAEKPDWEAEKTSER NERHLNGADTSFF\LEDLFQLL

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15208	45576	A	15298	1	2104	MKHLKRWSAGGGLLHLLTLL LSLAGLRVDLDLYLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRALGVFPVPRTSV DAWLHVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGG\CASEE NGVLREKHEA\VDHSSQHEENE ERVSAQKENSLLQNDDEENKI AEKPDWEAEKTTESGNE\RHL\ NGTDTSFSLAEDLFQLSSQP\EN SL\EGISIWGDIPLP\GSISDGHEF FKHIYHVNFQPRLLS\QD\VNHLH EAILLCPNNTFRDPTARTSQSQ EPFLQLNSHTTNPEQTLPGTNLT GFLSPVDNHMRNLTSQDLLYD LDINIFDEINLMSLATEDNFDPI DVSQLFDEPDSDSGLSLDSSHN NTSVIKSNSSHSVCDEGAIGYCT DHESSSHDLEGAVGGYYPEPS KLCHLDQSDSDFHGDLTQHVVF HNHTYHLQPTAPESTSEFPWP GKSQKIRSRYLEDTDRNLSRDE QRAKALHIPFSVDEIVGMPVDS FNSMLSRYYLTDLQVSLIRDIRR RGKNKVAAQNCRRKRLDIILNL EDDVCNLQAKKETLKREQAQC NKAINIMKQKLHDLYHDIFSRL RDDQGRPVPNPHYALQCTHDG SILIVPKELVASGHKKETQKGK
15209	45577	A	15299	2	342	RRRFRVAAA AVGTA*AVVLSA RPSETWETRGRR*\RICPSSWP* GI*VNNG*K*RRHSVCQCSLWF PARCIKPYHSMARTQPGTRNKE NGPAGPTALDNVASSDDTGRH RPQT



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15210	45578	A	15300	710	1831	IRMKSKEIIARCIKPYHSMARTQ PGTRNKENGPGAPTALDNVASS DDTGRHRPQTTQLAPGFAHPLQ LASFRRMVLFSLSGEGRSRGGPE LQFPASCRRGEGSPGVRESGSG GIAATSTPNYPPNQDSKEHDIR GAEHQKQEPAKPPHTARSAY PPQKSSYPANAKATRHSPETAA AKEARAPAAAQQRHQPNPSP APHTRPATAATRQPERRVPSPT HRHPAATRLSPRRQSPSPRPHH DRRGFPRLAETLQHPMCPLPLV ASAGHHRHRLLLLLAPQAPER EASDEIVFSGRSRSRGCPTEFQE SAMCFPNPGLPDSCGESQAVTI LILRFQKVIWVIEVPLDYKKG SWEYFSRMETIIMPENIQSE
15211	45579	A	15301	77	1041	IPSCVVSIGIAAAF/HPGLASDAP ARASSWWTHVEMGPPDPILGV TEGFKRDTNSKKMNLGVSAAYR DHNGKPYSIHKAEAQIAAKNLD EDYLSIGRLAEFCASAEVALG ENSEVSKSGRFVTVTISGTSAL RIRASFLQRFLKFSQDVFLPKPT WGSRTPIFRDTGMQLQGYRY DRKTCGFDFDTVEDISKTP EQ SLLLLHACSHNPTGVDPGPKQQ KEIATVVKKT/RNFLALFDMAY QGFASGNGNKDAWAVRHSAN\ IRHCRCQSYTKNMVLHSEGVA GFTMVCKDADEAKRVESHKI LMCPMYSNPPLNGTRLLLPF
15212	45580	A	15302	1	1263	
15213	45581	A	15303	1	1146	MTGRQSLSPVLSLSSLDMSMFT TRSIFSTNYLFLGSVQVSNYGA RPASCMAVYAGAGGSGSRISV SRSTSFRGGMGSGDLAAGMAG GLAGMGGIQNKKETMQSLNDR LASYLDRVRSLETKNRKLESKI REHLEKKGLQVRDWSHYLKTI EDLRVQIFANTVDNAGIVLQID NACLAADDFRVKSLMTNVTWL PLETEMEALKEELLFMKKNHEE EVKGLQAQIASSELTVEIEKSTT VVTQSTKVGAEMTLTELRR TVQSLKMDLDSMRNLKASLEN SLREVEARYTLQMEQLNRILLH LESEMAQSRAEGQHIGEYEAL LNIKVKLEAESATYHRLDDDD FNLGDALDNSNSMQTI/QKTTT RRKVVSETNDTKVL

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15214	45582	A	15304	184	370	
15215	45583	A	15305	40	1411	RGDPRVRRRTQSLSPVLSLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GIAGCLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL ESKNPEHLEKKGPQVRDWSHY FKIIEDLRAQIFANTVEQCPTTV L/LRIDSARLA\ADDFRVKYE\T EAGPCAQSVENNIHGLCKVIDD TNVTRLQLETEIEALKEELLFM KKNHHEEVKGL*AQIASSELT EVDAPKSQDLAEIMADIRAQYD ELARKNREELDKYWSQQIEEST TVVTTQSAEVGAAETTLTELRR TVQSLEIDLDSMRNLKASLENS LREVEARYALQMEQLNGILLHL ESELAQTRAEGQRQAQYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
15216	45584	A	15306	392	1449	GPWEMLMTIKSHPDARQPQR VKKLTQVFWSSASLRER/GKTY LFWPKLKAAEIPAAAYREALDE ALGISGGGRDVGERSVYKGPSM MANPQKPVLEALSSNKYLHILC AKHCDRHEGYKDEIKVKEASS RVNGCVEAMLSAPLPLDRRNE HVESKGGKPFMGLSPRVLSASR RDGLRERKGSFFRTVVLHDTKT DSNSDTETNSSTPPRTLLEMQIL SPTWTYEISSRTLGCGPSVFQQ RASYSVSPVSGPRLGCPLMDGGR MRCPPGNPESCVSEANLIPISVP VAPHAHQHLVLSVFWKITIVIG GKTCVAQNHSNEAKMKQRPEI NHASPPGAFAWSQSGEPIASAM TVPA

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15217	45585	A	15307	1	785	MWDVVGQDSSLLRGAGGPGLQL WFGRLQLHLGGLREHRDAWV HSRGLGSCSGMQGAATPTQNG RGSCLSPAPASSMEHAAPAVPP CCSWCDSSSRSRWPATATTETG PRTVPSAQESAVGLLTASLLKG DSGSTGFCPLLMSLAAPGTQQC SLGFCCTFERKRSSVSPAAPGTA APELAAALMLMPRKNQIAVYE LLFKQGVVMVAKEGVHLPRHPE LADKNVNLHIMKAMQ\SLKSQ GHREEQFAWRHFYWHLTREGI QSIQ
15218	45586	A	15308	1	392	
15219	45587	A	15309	1	716	
15220	45588	A	15310	150	372	RRSNEWGVVPVPARTGGG/HG QKTPSPPLPPSPPPSPPPPPA \\APAKIPPLPLPPLPPREAPPAP GPALP
15221	45589	A	15311	218	740	KSCPETVSRRKNVGSIKKHQGD KFNPVCLKMTTKTEFVLCGWV PCRCL/REGEEETVTTLDYSHCS \\LEQVP\\KEIFTFEKTLEELYLDA NQIEELPKQLFNCQSLHKLSPD NDLTTLPASIANLINLRELDVSK NGIQEFPENIKNCKVLTIVEASV NPISKLPDGFSQLNLNLTQ
15222	45590	A	15312	96	297	
15223	45591	A	15313	469	5174	KMTSLAQQQLRLALPQSDASLL SRDEVASLLFDPKEAATIDRDT AFAIGCTGLEELLGIDPSFEQFE APLFSQLAKTLERSVQTKAVNK QLDENISLFLIHLSPYFLKPAQ KCLEWLIHRFHIHLYNQDSLIA CVLPYHETRIFVRVIQLLKINNS KHRWFWLLPVKQSGVPLAKGT LITHCYKDLGFMDFICSLVTKS VKVFAEYPGSSAQLRVLLAFYA STIVSALVAAEDVSDNIIAKLFP YIQKGLKSSL
15224	45592	A	15314	267	495	GCLL**CLCIRL/SKNRAERALR PYSDVEALRLSSDFPFRQRPKG GSGWSLLSVEINQYYGPRVMIG RSNSEVVLVL

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15225	45593	A	15315	3	3027	AMEQAGTRPAATEHPRLRRPM PWLLLLPLLLLLLLLLPGPAASQ LRYSVPEEQAPGALVGNVARA LGLELRRLLGPGCLRINHLGAPSP RYLELDLTSGALFVNERIDREA LCEQRPRCLLSLEVLAHNPVAV SAVEVEILDINDNSPRFPRPNYQ LQVSESVAPGARFHIESAQDPD VGANSVQTYELSPSEHFELDLK PLQENSKVLELVLRKGLDREQA ALHHLVLTAVDGGIPARSGTAQ ISVRVLDTNDNS
15226	45594	A	15316	1	775	MPCVNGKYNSTIQAGLQMAQI LQDEGPYEVGIDEETGSQKGDG IIRSSRKLFTMALFLETNLLKD PLSRERRWRDLDELDSGGREKG VAVFLRSAGIRQVQVAMEQAG TRP/AATEHPRLRRPMPWLLL/L PLLLLLLLLLPGPAA/SQLRYSV PEEQAPGAL/VGNVARALGLEL RRLGPG/CLRINHLGAPSPRYLE/ LDLTSGALFVNERIDREACLGS AGANPVAVSAVEVEILDIN/DNS PRFPRPNYQLQVTARCWWTSW
15227	45595	A	15317	2	165	
15228	45596	A	15318	1239	2251	TCSSRARRPRRGRTVSQVRGPA PWAPRRARLQQRGLRGAARS PASPTSA/PSYSRASASAGPAAL QPQGA VTPGPSANLAAPGGTL VPAEGPRMPVTAQSASSHPAP SASQPSSPAAASRGLSVPQEV ATLLASASSPTLDATRDAPATP RIAAPGSATSSRGLGSAQGGSS LGTKESISDSFGLGSPA V TQRTT APPDSAALSQDTRPEAAGSWPG PQTGACSVGSGTDRRD TAAAT EAQHLSSSEKETS AQKSGNCF GILKADFTISTLMDPEEMKDQF LRQVRLPSTDALKKQSI SNYRP PGKGKPPQYLGDSA WNMVSA GTIEGFYKE
15229	45597	A	15319	46	2859	

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15230	45598	A	15320	240	924	NGEQKCILCHIVYSSKKRH\SHE CRRCGPTEVSL SAYAKHISGQL HKDNVDAQEREDDGKGEESSE DYFDKELIQLIKQRKEQSRQEPS SSSQEVNSDDSSSATFSVSIFYV WLKTILLLTWPKEVKRLDTPGL ELWLVPNMAELSEPEGPVDWK ERCVALESQMLKFRVQASKIRE LLAEKLHHNERLEYRDQRKDS ASFQRKKQFTYKASGIEMASDL SKAPLEIRG
15231	45599	A	15321	3	755	LRLPRRSTRTRRGIVVRTGAAM GKVNVAKLRYMSRDDFRVLT VEMGMKNHEIVPGSLIASL KHGGCNKVLREL VKHKLIAWE RTKTVQGYRLTNAGYDYLAK TLSSRQVVECVG\NQMGVKG\E SYIYIVANEEGQQFALKLHRLR RTSFRNLKNKRDYHIHRHNS WLYLSRLSGMKEFCYMKQFCD EQGSQLRIHMMGGQMWA VPIQPRDLFVWFVLR AEACAGCGATSQQRGALGVTSTCYRD
15232	45600	A	15322	1	1028	MNKTITTQEEVLPLQADVQRE EELNSLKQKLAAALLAEQEPQP ERLVSELQL\PRKAAVFQDEILR SSRQLVLPGLVHRHVLVCC GGLRCPLAGGLAAASVGRGL VDCDVVEMSNLAYQVLHGEAL AAQAKAASAAASLRGLNLAPP PAETVTNCADGGMLRVLTGVL GCLQPLKVLKIAASLGPSYSGS LLFDALRGHFCCIRLRSCRLDC AACGKWPTVTHLLDYEAFCS SATDKCRSLQLLGPEDRVSVTD YKRLDSDGAPHL LDIRPKMEL PRKAAVFHDEILRSSRQLVLP ELGVLRLHLLVVGCGGLRCPLAQY LAAAI VGRGLVAYDVV
15233	45601	A	15323	92	778	QGTRRWSLGTCSLMTRTQFEV CTKVCVQESLQRPGEELKTRCP SVGAGYVNYGTPAHERI/GAAV KTGREADKPEVTQTFSTRK DE/TSLFGVPLQ*LLARHRAPP* RRT/RLLEVARTPMLPAQASR SELAARQDSAWASPAAPSPN/ RSVLRRCLLSARPLCGPL/LRV LPSWRRQQIRENSAED*LHSEY RANRIRRRRGHPEN/WTKS*LE NPENLTRSSSAPAPC
15234	45602	A	15324	142	500	

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15235	45603	A	15325	3	343	
15236	45604	A	15326	1164	1648	PLMTSAPWPSCCCWRSLSGRP AGRQRQLPTSITTANQPAPSRR KKSTSRKKQRNLPAVSPAMVAI VRRSCDLYRWSVLHYASQERR VRDAAKPESDARKRTTTKTRR/H WRYIKELESRQPGVADMRQQP TQLVEVPWNEQTPEQRQQLQ RQHGRETRCSV
15237	45605	A	15327	28	417	
15238	45606	A	15328	2	440	
15239	45607	B	15329	1	441	
15240	45608	A	15330	22	584	IRGRVDPPSAVEPPPKMQIFVKT LTG\KTITLEVEPLGYG*KNVK AQASRDK\EGI\PPDQQL\IFAG KQ\LEDGRTLSDYNIQK\ESTL/ HIFVLRRLRGGAKKRKKSYTT\ PKK\IKHKRKKG*SLAVLKYYK \VDE\NGKIS\RLRRECPS\DECGC WGVYGVQVTFDRHYCG\KCCLT LLFQQTRMTSNCMS
15241	45609	A	15331	3	954	LDARRHWEGTPGFTHTSPDAW ADAWGKMAGEKVEKPDTKK KPEAKK\VDAGGKVKKGNLKA KKPKKGKP\HCSRNPVLLRGIG RYSRSAMYSRKAMYK\RKYSA AKSKVEKKKKEKVLATVTKPV GGDKNGGTRVVKLKMPRIY PTEDVPRKLLSHGKK\PFSQHV RKLRSITPGTILILTGRRHGR VVFLKQLASGLLLVTGPLVLNR \VPLRRTHQKFVI\ATFTKIDIS\ VKIPKHLTDAYFKKKKLRKPRH QEGEIFDTEKEKYEITEQRKIDQ KAVDSQILPKIAIPQLQGNLRS VFALTNGIYPHQLVF
15242	45610	A	15332	670	1008	WCILGVTPSLMSRTALFLSRHT FFA/RSHSAASKL/EKKKKEKVL ATVTKPVGGDKNGGTRVVKLK KMPRIYPTEDVPRKLLSHGKK PFSQHVRKLRSITPG\TILILTG\ RHRG
15243	45611	A	15333	1	708	

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15244	45612	A	15334	1	1754	MRNEISDLTEELHQKEITIAVT KKAALLEKQLKMELEIKEKML AKQKPWACLVNAMP AIQVVFN LGRFRKCQDPHKAQEWVYPGY SGSDCEVFPEIMTSKNREEAMP EWKLWKKVVLSGATDAPSWD GPTFTDLNVFAGNMGLSDCTLS LGKIWKIPGHFLHTSGPVSFHT KGLLNTPTKERWVGFGSEGR GVPEPGGCFGLAVPRRTPPSA AAMTGGERLGRAWAGDRAAA SRSAPVPGTFGMMGWRPVAFG KNAKAYRGFGGIVTSLTPSCDK VTLLFVRILPGSGQSRDQSSPEK LTDTKSTSNKAYGFPECLRRPE STHIFFYDHLGSEQPRGTKGT PLKWVSQKTLERETRQCQALVI WTD CDREGENIGFEIHHVCKAV KPNLQVLRARFSEITPHAVRTA CENLTEPDQRVSDAVDVRQEL DLRIGAAFTRFQTLRLQRIFPEV LAEQLISYGSCQFPTLGFVVERF KA IQAFVPEIFHRIKVTHDHKD GIVEFNWKR/LSTL*PHGLPSSL SVVCGVRSLSRSVGFVCWRSTP DPVCLCITSGGCRTASIAEQQKL LPDPSYRSFIPEGQPPI
15245	45613	A	15335	3	125	
15246	45614	A	15336	764	1005	
15247	45615	A	15337	1	3533	MELVNCVLMSTLGNTCCPMAI AMFRSSSSLPRPGHSLTGSPLRV NLIHIKFP LNDFHQNVVKIKNK DPPLGAAIGKESCP IADNELHSL ERRPLSPKL VQALGVAGLSRPG PPHTGCAIWLLITD HKLLSEIL YDLLHQGLDILADPPDEGGIPR GKNLVELLQLPGLEEDKAFQKE IGLKILVFKAYSTLSSDG PPLFS ALRSLQGVQSSKVGESREEKSQ TEEDPGNPWVPQSLGASVSSS GKWGCLRTKP

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15248	45616	A	15338	1	2800	SISGPGQEAVPLRPKAEPPEGSG MVWDRQTKMEYEWKPDEQGL QQILQLLKESQSPDTTIQRTVQQ KLEQLNQYPDFNNYLIFVLTKL KSEDEPTRSLSGLLKNNVKAH FQNFPGVTDIFKSECLNNIGDS SPLIRATVGILITTIASKGELQN WPDLLPKLCSLLDSEDYNTCEG AFGALQKICEDSAEILDSDVLD RPLNIMIPKFLOFFKHSSPKIRSH AVACVNQFIISRTQALMLHIDSF TENLFALA
15249	45617	A	15339	8	450	TWSWSPQAPSWARPSSQARAV SLLVARGQLCQGSRRRSGVGSR VDAGAARTALRTLGTPLRRP CGLGSHETKAAASGQDQGRGS RGRGSLGGRELGANPLYQ/WR AHTLTVLFILTCTLGVTLEET PQDTAYNTKSEIAVVHLS
15250	45618	A	15340	246	559	MPVAVMAES/AFSFKLLDQCE NQELEAPGGIATPPVYGQLLAL YLLHN/GQRIWQRDFPGIYTTIN AHQWSETVQPIEALRDATRR RAFALVSQAYTSIIADDF
15251	45619	A	15341	129	915	RSGTQGRSAATAALNVIAGATP EGQSWGLAVRTVQRRGRPAK MPVAVMAESA\SFKLLDQC ENQELEAPGGIA\TPKVYGQLL ALYLFHNDMNNARYL*KRIPPA IKSANSELGG\IWSVGQRIWQR DFPWG/IYTTINGHQWSETVQP IMEALRDATRETAPLPWVSQA YTS\IAR*FCQPLLGLPV\EEAV KGILAEQGW\QA\IDSTTRNGSCP GKPVCGRPWDVFPFNKFISLYS EPAPV\PIIPNEQQLARLTDYV AFLEN
15252	45620	A	15342	1	529	MATLTISRAQTEADYYCHRI KLVKEGLDERTHKAYLSSSGK GCEFHMVKPGSPLGPDILGSA QSALIQPPSVSGSPGQSVTISCT GTSSDVGSYDYVSWYQQHPGT VPKPMIYNVNTQPSRVPDRFSG SKSG\NTASMTISGLQAEDEAD YYCCSYAGSYPVVFSGGKTCLT
15253	45621	A	15343	399	737	WISGGNSCATT/LSDAGLSTTSN SIGSAT\GARQAESASSQSGGGA LGRHCGASGKCAESLRREPVG ATNQWAPGWVVGPRPASDSSHV VIGLGRSAWSPA EVTPLIPGRG RTK



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15254	45622	A	15344	1	4320	
15255	45623	A	15345	1	966	MNVNLAEEKGKETVGDEIKG GGIQMVMLASQPLTSYCAARFI TGHGQKLKSELKKTLLQVIMLNI QKVRIPTRDGYNEKDILSTGKN VEKLELSNIAGYPSNIEKKEYQE QSVLSCCSEKDDANPKSVVCSF FMQEQCTKGEKRFILPGTSLSD RHLRYFGILPTVSNAAVVKEVP TVSNAAVVTEAPTGSNAAVVT EAPTGSNAARVMEVPTGSNAA VVTEVPTGSNAAVVTEAPTGSN AAVVKEAPTGSNAARVMEVPT GSNAAVVKEAPTGSNAARVME VPTGSNAAVVKEVPTGSNAAV VKEVPT/GSNAAVVKEAPTGSN AARVMEVPTGSNAAVVKEAPT GSNAARVMEVPTGSNAAVVKE VPTGSNAAVVKEVPTGVTLRW SRKRPRE
15256	45624	A	15346	1	702	
15257	45625	B	15347	238	546	
15258	45626	A	15348	632	2361	FQSRTFLKNWNPGEQSQKII/CF QLGERAYQTDVLVKVPRQSSV FSENQRMNNPERWFESTGCGK TYNQNRFAFNQHQRFHSGEKTY EHNECGKAFSWPSILSKHQRIH TGKKLYTCEDCGKSFSVHSYFI QHCKIHTREKPYECIKCGKAFS THSSYVQHLKIHTGEKHHECNQ CGKAFSHSSNLIHHQRIHSGEKP YKCKEKGKAFNRQSNLIQHQR HSGEKPYPDCKEGKAFSTQLFL IQHQRIHTGEKPYECNECAKSFS LNRTLTVHQRIHTGEKPYRCNE CGKSFSQCSQVIQHKRIHTGEK PYICNECGKSFGARLSLIQHQR HTGEKPYGCREKPYECSECGK AFSQSFNLIHHQRTNNGEKSYE CNECDKAFSLSSLVQHQRIHN GDKPYECHKCGKAFSQGSHLIQ HQRSHIGEPYECNECGKTFGQ ISTLIKHERTHNGEKPYECSDCG KAFSQSAHLIHHQRIHTGENPY ECSECGKAFNVCSLIQHHRHT GEKPYECSDCGKAFSQHSQFIQ HQRIHTGEKPYMCNECEKSFS CLSLIQHKRIHTGEKPYVCAKC

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15259	45627	A	15349	3	354	EAFGGERVSSMSGSLSGPPARR GPFPLALLLLFLLGPRLVLAISF HLPINSRKCLREEIQQGPASDW RVRDLRPVWGRWRPAQ/RTSRS QILLAIFSTPKRMQPRGNLPLTT EDYDMF
15260	45628	A	15350	283	393	YVYRRYGRFE*NDPSSALMST* GKRCQDCLDQRENKK
15261	45629	A	15351	1	351	
15262	45630	A	15352	1	867	
15263	45631	B	15353	1	1323	
15264	45632	A	15354	1	3669	
15265	45633	A	15355	362	1039	LESYLQLPSAEGKTVSVFGETC ATPVGP/AAGPHTQ/LAQNIVTS WLTGGRFIELKTVQILDRLELE KPCIDAEDFCNTEWSTFTLL KAWDEYLKAWFALHLLLEAMF QPSDSGKSFIFNMSVGYNLEGQ PLNPKNYP SQGVPRVLKSHRQD YLVGNKLSWADIHLVELFYV EELDSSLISSFLLKPHTHVDNT KKGSHPHMCAYTDYVNNPND RMPQREITFVS
15266	45634	A	15356	74	208	QRLTKLRETSRRLLSWQRSPSS TTSMHGAEWSPPRWLLAAAGV EFEEKFIKSAEDLDKVRNDGYL MFQQVPRLRLMG*SWSRV
15267	45635	A	15357	308	735	NQRCTWAYSMTMEIFLISCVKT LSVRYAVQQLKTGVFCSLETQP SKMAPAKKGSKKKKGHS/AIIE VVTQENTINIQKHIHEVGFKKC APRALKEIQKFAMKEMGTPVV LIDTRLNKAVWAKRIRNVTNRI HLCLSRKCNEDKE
15268	45636	A	15358	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSHSPMAGGLAG MGGIQNEKETMQSLRDLASY LDRVRGLETENWKLESKIQEH
15269	45637	B	15359	1	991	

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15270	45638	A	15360	40	1030	RGDPRVRRRTQSLSPVLSLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTSFRGGMGSGGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL VESKIREHLEKKGPQVRDWSHY FKIIEDLRAQIFANTVDNARIVL QIDNARLAADDFRVKYETELA MRQSVEN\DIHGLRNV\DDTN YHTDLQLETEIEALKEELLFMK KNHEEEVKGLQAQIASS\GLTV EV\DA PK\SQDLAKIMA\DIRAQ Y\DELAR\KNREE\LDKYWSQQI EESTTVVTTQSAEVGAAETTLT
15271	45639	A	15361	1	438	LHSDDL\SLQMLRCSPVATAASY TSGPGAPISSSFSRVGSSSFQGG LGGGFGGASGIGGITAVMVNQS LLRPLNLEVDPNIQARF/VHTQE KEQIKTF/NNKFASFIDKVRFLE QQNRMLEAKWSLLQQQKMAQ SNMDNMFQSYINN
15272	45640	A	15362	176	1455	EIFPLVIQKSYKVSTSGPRAFSS R\SYTSGPGAPISSSFSRVGSSS FQGG LGGGFGGASGIGGITAVM /VQVLHTQEKEQIKTF/NNKFAS FIDKVRFLEQQNRMLEAKWSL LQQQKMAQSNMDNMFQSYIN NLRWQLET LGQEKLKLEAELG NMQELVEDFKKKYHDEINKHT EMENEFVLEKDVDEAYKNKV ELES HLEGLTDEINFLRQLHEEE IWELQSLISDTSVVLSSSHSLD MDNIITEVKAQYKEIANCSWAK ADSMYQIKYEDLQMLARKHGD NLRCTKTDISEMNQNVSWLQA EIKGLKGQRASLEATITDAEKR RELAIKDANTKLELEAALQW AKQDMAQQLRVYQELMNVKL ALDIKTATYKKLLEGEESWQES RMQNMSIYSKTTSGYAGGLSS AYGGLTSPPLSYGLSS
15273	45641	B	15363	70	915	
15274	45642	C	15364	62	217	
15275	45643	B	15365	1	612	

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15276	45644	A	15366	3	841	STPKMPKGKKAKGKKVAPAPA VVKKQEAKKVVNPLFEKRPN FGIGQDIQPKRDLTRFVKWPRY IRLQRQRAILYKRLKVPPAINQF TQAL\DRQTATQLLKLAKHYRP ETKQEKQRL\LARA\KKA WPKGTFTKRPV\LRAGVNTVTT LVENKKAQLVVIADVDPIELV VFLPAL\CRKMGPYCIK GKAS LGRIVHRKTCTTVAFTQVNSD KG\ALAK\LVEAIRTNNDRYD EIRRHWG GNV LGPKSV\ARIAK LEK\AKAKELATKLG LNVHC
15277	45645	A	15367	2	1006	WINLKGNLLRK RSLTSNFWPCK LRSKRHTTRNLRMNLWLSSH PPQQSNTKPWCCQLSCSTSLT LLGTSLPLLSYLIHLIPGPRQYP VIHRTSTLLLQHISVGKEKFHKS QHWGFCNNVMMLQLQLSPLK GLSLVDKVNRPALSGTRVLAS KTAWRIFQEP/SEP KTKAAAPG VEDEPLL RGNPCR FVIFPIEYHD IWQMYEKA EASFWT\EEVDLS KDIRHWESLKPEERYFISHVLVF FAASDGIINENLVERFSQIVQITE ARCFYGFQIAMENIHSEMYSLLI DTYIKDPKEREFLFNAI/ETMPC VKKKADWALRWIGDKEATYG
15278	45646	A	15368	3	1368	QAQPMGRVGGMAQPMGRAGA PKPMGRAGSARRGRFKGCWSE GSPVHPVPAVLSWLLALLRCAS TMLSRLVPLAPITDPQQLQLSPL KGLSLVDKENTPPALSGT\RVL ASKTARRIFQEPTPKTKAAAP GVEDEPLLRENPRRFVIFPIEYH DIWQMYKKA EASFWTAE EVD LSKDIQHWESLKPEERYFISHVL AFFAASDGIVN\ENLVERFSQEV QITEA\RCFYGFQIAMENIHSEM YSLIDTYIKDPKEREFLFNAI\E TMPCVKKKADWALRWIGDKE ATYGERVVAFAAVEGIFSGSF ASIFWLKKRGLMPGLTFSNELIS RDEG\LHCDFACLMFKHLVHKP SEERVREIIINAVRIEQEFLTEAL PVKLIGMNCTLMKQYIEFVADR LMLELGFSKVFRVENPFD FMEN ISLEGKTNFFEKR VGEYQRMGV MSSPTENSFTLDADF

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15279	45647	A	15369	2	621	RFIKMLSRHHQHVVHVLPLLRA PLPVAMEEEIPALFIDNGSGM/C KSSFA/GDNALRAIFPSIIGHPRH QGVVMVGMGQKDSYVGDQAQS KCGILTLKYPIKHGIVTNWDDM EKIWHHVVFYNELCVALEEQVV LLTEAPLNPRANREKMTQIMFK TFNTQAMYVAIQAVLTLHSSGC TTGIVMDSGDGVTHTVPIYERH TLPHTILHLDL
15280	45648	B	15370	1	966	
15281	45649	A	15371	2	228	
15282	45650	B	15372	1	816	
15283	45651	A	15373	256	384	RKLLNEAPC*PMR*HSLNRLA TSCNSWTVPVVPKFSKLRRGL
15284	45652	A	15374	145	375	KIAGKNRLNRNQCKERKVQVL WISEKKKQREAVEDSPSLDCCH KFPPGS*ERLHG*KRGQWF*PP HTVEKQMRSCLL
15285	45653	A	15375	319	482	
15286	45654	A	15376	4776	5910	VCSTAGDVNGVCLLYDLLHIA VASGSAGGECFFARKPLLAEGV IYDCLQEFKEKKLVATPHAQV LSYEALLSAHDTIAQKDFEPLLP PLPDNIPESSEAMRIVCLVKNQ QPLGATIKRHEMTGDILVARIH GGLAERSGLLYAGDKLVEVNG VSVEGLDPEQVIHILAPRCLSP MSLADLPPLPREVLVLGAKLPV PSSSFLQPREDCQGPQPSSLIT WFAPLETEPGVDRAMSRGTIMF KVVPVSDPPVNSQQMVYVRA MTEYWPQEDPDIPCMDAGLPF QKGDILQIVDQNDALWWQARK ISDPATCAGLVPSNHLLK/RIWT EPGICIFTKRLRCSGKQREFWW SQPYQPHTCLKSTLCEYCNCPT
15287	45655	A	15377	2	405	WSLVTRRALARVGLPG/SPPPRL LLLPLLGWGLRVAAAASASSS GAAAEDSSAMEELATEKEAES HRQDSVSLTIFILLTLTILTIWL FKHRRVRFLHETGLAMIYGLEK ITIGVLDITGWPYCTIQPYNGFL
15288	45656	A	15378	1	3804	
15289	45657	A	15379	349	622	RPDVANLAFLARKEGTRGFLS KKTAEASRWHEKWFALYQNV LFYFEGEQSCRPGMYLLEGCSS GGTSPRSFRSSSRDSPISILHPT AK
15290	45658	A	15380	314	483	

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15291	45659	A	15381	352	822	DPRRVQAFPAKMKFNPFVTSR SKNRKRHFNAP\SHIRRKIMSSP LSKELRQKYNVRSMPIRKDDEV QVVRGHHYKGGQIGKVVQVYR KKYVIYIERVQREKANGTTVHV G\HPSRVVITRLKLDK\DRKRIS DRKAKSRQVGKEKGKYKEETI EKMQE
15292	45660	B	15382	80	432	
15293	45661	A	15383	11	888	VKCRKAEGRRSRLQTFEESQA VEAAMANVPWAEVCEKFQAA LALSRVELHKNPEKEPYKSKYS ARANMAEEVKALLGPAP\EDD ERPEAEDGPGAG\DHALLPLAE VVEPEGPVAQANRLRLAV\NEF HLGVNHIDTEELSAGEEHLVKC LRLRRYRLSHDCISLCIQAQT WRCIGVRDPPTSSCAFLSTSTP VHSVKKIQTPGPLRPSNSTLVD DMESSFQTCFASPLSQDYVNGS NQEEIGTGVDRCIHKFLDIARQ NISFLQKRLQLSVQKPEQVINED VDVSELRNE
15294	45662	A	15384	1864	2705	WPGKVL AHRGLHPWHRDPHGS GGGAGQELRRQGGCLEQLLYD AAHAQRLPPLDSVLPRAALPQD CQRASACEGDPTLLRPSHSPGH PRGAEER/VPSTACLQRSWEGR/ WNRALQQVGGGLKSPWRGEYK EPRHPPPNQANYHQT/ACP AE R/CFRQGPQGPQGLRRQQA EPL SSSLLSHQSPQSQTSLP*L*AR RSLGCGNPYLCPPWSQPLPETP AHQSGKQPSRSRNCSSWK*NYS STACPSHFLWRSRSKFSRASAST ASPCRMTVRRTHQRPLKARGTP
15295	45663	A	15385	1113	1378	RPHAESFVSGGIPDPPGPGPGST GPGPL/ERQPCSLTSPREPPSSS SMKMLTQGPSLTAPYKGTILGE VNPAHAISSARNTSSRTSV
15296	45664	A	15386	285	722	TPAHPGVPPGQSGRHRHW/QSA ARSQLQPSAW*PKTGSLFATTW RCQTRASTCSAHWPLMAASPG AGGSSMASWR/DRP*PCPPPPAP HLPEAAFLLR/CHDACP*NTGSA VPRGSCQPPAQQWDQGLAATR WGQAERLPRIYNWALAPP

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15297	45665	A	15387	207	605	FQASAERFGTEDD/GSLRTRPPV MQSHQWPWRRPRPLVSRGRPQ TTPERHDSGGSLPLTPRMESH EDEDLA/EGCRWP/EAGTVGVP GPRAQGAAQR/QAVLARKKHR RRPSKRKRHWRYLELSWAEEK QQRDERQS
15298	45666	A	15388	193	407	ACPKTSKNLRQRRLLWNLAKHE F/SVDMTCGGCAEAVSRVLISLE VRVKYDIDLPNK/KVCIESEHS MDTLLATL
15299	45667	B	15389	321	625	
15300	45668	A	15390	275	690	SLWPPVIRG/SPKGNRPAILTYH DVGLNMANKKSGDHPEREGTP RSFREVVSAFGPGSSKLQIPKGS APRCGVPGRGARRELQSFRAGP RTQGSPVGPGRQSRRLRSAQEE SAKARHGGLRAHRSFSWDIRM SSKERKFS
15301	45669	A	15391	2	137	PGRYRPN*LLLSDASPGAGNEF QSTFLTPTILPSLRFPVLYTPNS
15302	45670	A	15392	1	648	MSLRKLTIMVEGKGGPNIPHAC GCRQRSSIKVSLPAVTSKSESP KEPEQLRKLFIGGLSFETDDESL RSHFEQRRTLTDCAVMRDPNT KCSKGFVFTYATMEEKYHTV NGHSCEARKALSKQEVASASS QR/GRSGSGNFGGGHGGGFGG NDNFGHGENFRGHSSFGGSHG GSGYGGSGDDYSFGNDGSNF GGGGSYNDFGNYSNQSSNFGP
15303	45671	A	15393	1	3629	MTGICYTEDERSYKKNAQPTA ASKKQKETQKFLRVDGQQKV KLSVLQEKSAQLTVQLKSQKFL GHPTAGRGRSELCLDLPDPED PVALETRSVGTWVRERDLGMP DGEAALAAKVAVLETQLKKAL QELQAAQARQADPQPQAWPPP DSPVRVDTVRVVEGPREVEVV ASTAAGAPAQRAQSLEPYGTG LRALAMPGRPESPPVFRSQEVV ETMCPVPAAATSNVHVMVKISI TERSCDGAAEMKWEDQNIGD

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15304	45672	A	15394	1	1515	MGQVFRVVTGVGEQPGHPDQF PYIDSWLSIIQNHPKWLQACFET YCKTLMAQIKPGTIERDCKASV KEKDSQEKQKKPVLQAPPEELE SPALYAPIYPSLARLRQEAAPA APRGSDSEESTPQATPCREEPEP LPEKETSSSYRSNAVHFLIHNPT WADCKQLLQSLFNTEEHHRVI QAAFQWLENNAPAGTG YIRQY AQQALPIEADTGWDPNQAQGL QSLQWYREALLNGIKAGGKKA TNIGKVSEVCQKPDESPSEFYER LCEAYQLYTPFDPEAAGNQCM VNVAFVSQAQGDIKRKLQKLE AKAVLRGKFIALNTYIKKAERA QTDILRSHLKKELKKQEQTSKA SRRKDVTKIRAELENEITTTKI QKINETKSWFFEKINTINRPLAR LTKKSREKLQITSLRKEMGDTT TDTTEIQKIIQGYEHL YAHKLE NLEEMNKFLEKYNAPSLNQEEL HTLNRPIRNSEIEVVIKKLPTKK/ SPGQDGFRAESYQIFKEALV
15305	45673	B	15395	1	1077	
15306	45674	A	15396	69	290	YYFDSPHPLHLSGTLRPGGSQR FPCDPQFLCRLHHTLASL*SLPG DLLRGLLHKLVC RVERLDLASL YAVGR
15307	45675	A	15397	62	201	
15308	45676	A	15398	3	429	LPSSVPRQPKMQARCLSR SIRA VEIYESDLEEGQGLLHEFSQFVL DRPPPTQSR YAQELVHTCYLHT LASL*SLPGDLQRGLLHKLVC R AERLDLASHHAAVGRSEFFW TPYTHSPPGAGVGHPFPWHTRL PWGVPAEGHQ
15309	45677	A	15399	303	612	PSSSIPVYHCSLRGICIPVLGLKR AANVGVSLEASPPLLSTPGGLGI CLSCGGTRTVGSRVGSIFPW*G EGTTGITGSISCKGSSDVGSNRT SGVDFPRRVE
15310	45678	A	15400	1	273	



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15311	45679	A	15401	1	406	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EATDPPGVKLQTFVSVTTHKG SVDPNSEKQDQLLQRAKEQSFH SVEGDPSRDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSR*RAI SCCPSH*LPSAKCISVSGIGGFL VSLTSRMKPRTLLE
15312	45680	B	15402	1	930	
15313	45681	A	15403	391	617	LQLQPTG/CNFLYFYVGYMKIL GFCFHHIVEERGGCLWYPCFYC NLSLLGG*RSCSHTRIVPSLLMP KLGPGGQVC
15314	45682	A	15404	1	1860	
15315	45683	A	15405	1	531	
15316	45684	A	15406	2302	2691	
15317	45685	A	15407	520	2883	
15318	45686	A	15408	3690	4727	ENCHWGCHEPCDIGSSIILSPLA YWEQYHRVTYISRDEGSIIVFP ALVTMLRNLFILAGSSDPHFHT PMYFFLSNLSWADIGFTSATVP KMIVDMQSHSRVISYAGCLTQ MSFFVLFIACIEDMLLTLMAYDR FVAICRPLHYPVIVNPHLCVFFV LVSFFLSLLDSQLHSWIVLQFTF FKNVEISNFVCDPSQLLNLA DSVINSIFIYLDSIMFGFLPISGIL LSYANNVPSILRISSDRKSKAF STCGSHLAVVCLFYGTGIGVYL TSA\VSPPPRNGVMASVMYAV VTPMLNLFYSLRNRDIQSALRR LLSRTVESHDLLSQDLLHPFSC VGEKGQPH
15319	45687	B	15409	1	3195	
15320	45688	B	15410	1	1819	

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15321	45689	A	15411	399	1089	LLTPRTDLQEMPLDNAIEWYT DGSYLRGEVFQWYDHLALIFVP QTGIEDVIWHIEALPNYIQKVCE RRNPYNQILSLQCAQHEIFLVS WKLVCCKQLEGDDDDMLVGTTA SNLLESEQSTSNLNEKINHLEY EDQYKDNNFGEGNDGGILEDK LISN/NMGGPDSPDSVNPVE/P/M PTMTDQTTLVPNEEEAFALPI DITVKETNAKRKRKLIVDSVKN LDSKTIRAQLNDY
15322	45690	A	15412	3	809	FKDDDDMLVSTTTSNLLESEQS TSNLNEKINHLEYEDQYKVDNF GEGNDGGILDDKLISNNDGGIF DDPPALSEAGVMLPEQPAHDD MDEDDNVSMGGPDSPDSVDPV EPMPTMTDQTTLVPNEEEAFAL EPIDITVKETKAKRKRKLIVDSV KELDSKTIRAHLSDYSDIGTTLD LAPPTKKLMMWKETGGVQKLF SLPAQPLWNNRLLKLFTCLTP LVPQDLIKRRKGGEADNLDEFL KEFEHPEVPREDQQQ*HQQRD VIDEPII
15323	45691	A	15413	1	595	MVNRSHFRGVGEPCHQQNSHG HLNSITETSNSPTLRAAPLQPTR DPSDMAVFEIDELPEGAVKPPA NKYPIFFFGTHETAFLGPKDLFP YKEYKDKFGK\SNKRKGFNEGL WEIENN\PGVKFTGYQAIQQQS SSETEGEGGNTADASSEEEGDR VEEDGKGKRKNEKAGSKRKKS YTSKVTKLLIVINVICISIKHF
15324	45692	A	15414	41	785	GKGWAGGASGPANHGPAAGG RSPGMLRGDQGLPGRGAAGM ARPRSRE\YKAGDLVF\AKMKG YPHWPARIDELPEASVKPPTNK\ YPIFFFWHPMKPAFLGPQ\DLFP Y*EYRGKFGK\SNNRKGFNEGL WEIENNPGS\IRFTGYQAIQQQ SSFRTEGEGGNTADASSEEEGD RVERDGKG\KRKNEKAGSKRK KSYTSKKSSKQS\RKSPGDED\D KDCKEEENKSSSEGGDAG\NDT RNTTSDLQKTSEGT

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15325	45693	A	15415	1	1272	MWSGAGPGLAVWPQLVTVLSL SL SRLNCKWGLSFLACLLLG MADAAMQHYGVNGYSLHAM NSLSAMYNLHQQAQAQHA PDYRPSVHALTLAERLADIILEA RYGSQHRKQRRSRTAFTAQQL EAEKTFQKTHYPDVVMRERL AMCTNLPEARVQVWFKNRRRA KFRKKQRSLOKEQLQKQKEAE GSHGEGKAEAPTPDTQLDTEQP PRLPGSDPPAELHLSLSEQSASE SAPEDQPDREEDPRAGAEDPKA EKSPGADSKGLGCKRGSPKADS PGSLTITPVAPGGGLLGPSHSYS SSPL/SPLPSAGAIPPAHGGHQ PGALLVLRSGSGPCCCSGGCC CALPGRQHGPAGLTA/SASPTTS PCQQPLLP/SQGVWGSPLLPAPP AGLAPASATLNSKTTSIENLRLR AKQHAASLGLDTLPN
15326	45694	A	15416	1	1152	
15327	45695	A	15417	8	82	
15328	45696	A	15418	1	1350	MGSEKDSESPRSTSLHAAAPDP KCRSGGRRRRLTLHSVFSASAR GRRARAKPQAEPPPAAQPPPA PAPAAAQGPPEALPAEPAAEA EAEAAAAAEPGFDDEAAEG GGPGAEVECPCLVRLPPERA PRLSCPHRSCRDCRLHYLRLEI SES RVPISCPECSERLNPHDIRLL LADPPLMHKYEEFMLRRYLAS DPDCRWCPAPDCGYAVIAYGC ASCPKLTCEREGCQTEFCYHCK QIWHPNQTCDMARQQRAQTLR VRTKHTSGLSYGQESGPADDIK PCPRCSAYIHKMNDGSCNHMTC AVCGCEFCWLCMKEISDLHYL SPSGCTFWGKKPWSRKKKILW QLGTLIGAPVGLISLIAGIAIPAM VIGIPVYVGRNIHSRYDGKEN\S KHKRNLAITGGVTLSVIA SPVIA AVSVG\IGVP\IMLAYVYGVVPI SLCRGGGCGS
15329	45697	A	15419	2	540	

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15330	45698	A	15420	1	530	SRTTPGKAPKETWGQDAGSGK GGQGPTRKPPRTSSHLPPSPA AGDCPILATPESPPLAPETPDE AASVAADSDVQVP\GPAASPKP LGRLRPPRESKVTRRLPG\ARPD AGDGDHLSAVAERP KVSLHFD TETDG\YFSDGEMSDSDVEAED GGVQRGPREAGAKE\VVRMGV LAS
15331	45699	A	15421	1	2989	MLLVMYWAPAPPPVHMSQFLT TGPKCLELSLDHGRDSQEITAS GLLWLQHAACGLAQWNQKPH PPFLTLLQAEPPFERARSCDIYIR IKMLQTAQQHQVGLAPTERKE ALRGSQSPQKSASGQRPGLDR ELMLIKISKCLRVPSPSSVLG TESTGPVPGELVLCQQDAGATQ EGVCYGRELMICRCDSPRLME PWGVKGTPEVFRTDLITAMKIP DSYQLSPDDYYILADPWRQEW EKGVPVAGAEAIPE
15332	45700	A	15422	218	404	
15333	45701	A	15423	1	422	
15334	45702	A	15424	160	470	LTMLFAACVFSGDEIMASEERQ PMEEEWRSSTISGEDGERWTP DTAGKAAQGIAGDVVWVSPLP PSKVSAASKPPKS\HHPFFKWH NFSNLMKMFYKMYFSKN
15335	45703	A	15425	21	375	TFENTRFWDVQIPVPTGERRNE WALPPPGAGSV PAGGWSRPLTP GRCD SQGRSRRAAPLSRSPL PPLRRSPTLPGEPPAHRPLRVH PRHGPRPSHL\ACLNSQAPDASR LRASANQ
15336	45704	A	15426	155	340	

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15337	45705	A	15427	1	2658	MIINTIITTTTTITIIITIMSSSPIT ITNIITHQHSHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLGP NSTCSRLPELTDSEDCQPADSP GDEDPKPWWDPPEAPLTGYF HPYGAAFVPRHAGNFKDRREV PHQDTSFCSAGQFWILPSACKT GRVALTLTLLIGAYQTLTEADV KGLTAARAASPGAKWRTQFPC PAGTCSSQAGNGQLEDCLPYPP GPSAPVGSLSRSSANGEFIIGRVI KAMNNSWHPECFRCDLCQEV ADIGFVKNAGRHLCPCHNRE KARGLGKYICQKCHAIIDEQPLI FKNDPYHPDHFNCANCGIKLG VFLTDRKDLTADAQELKGELY CLPCHDKMGVPICGACRRPIEG RVVNAMEGKQWHVEHFVCAKC EKPFLGHRHYERKGLAYCETH YNQLFGDVCFHCRNVIEGDDE GDGFAHRYSPYDSCEVDQSPLE GQQLKSIRKGPLAQSQPLPTPV MLHPGCKTQIREAPGSAALESV RRRPRPGLVPEESESAAVEAV RHIHLQNFSSRLLETNGQKLG GHFCDVTVCIEASLRAHRCGL AIGSPSFQDKLLGPSEIRVPSV VPVQTVRQLVELLYSGSLVVA QSEAPQVLMASVLRIDSYRR MHADYRTRSSAPASTSAPAPLP TPVPPPLAPEQLRHRLRHLAA
15338	45706	A	15428	708	892	
15339	45707	A	15429	2	713	
15340	45708	A	15430	212	1246	DLPLAVHGVSDSGAQAVASR SGDESSIVCLKEESTVNMTFRCS LPLAVISVVSFTAKCQVKSEFII GRVIKAMNNSWHPECSAVTSA RKFWQILHLSRMLVDRKDLTA DAQELKGELYCLPCHDKMGVP ICGACRRPIEGRVVNAMEGKQW HVEREQYMDPGILSALIDPKYL LILSHRGLHMKSMKGFYFAKL YYEAKKEYDLAKKYICTYINVQE RDPKAHRFLGLLYELEENTEKA VECYRRSVELNPTQKDLVLKIA ELLCKNDVTDGRAKYWVERA AKLFPGPSAIYKLN/DGWVRG QMVPKPDDEGVQVRGRSGRPD AGWRLNRRSSVGGSAWRLRPQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15341	45709	A	15431	129	444	WGGPGRQPDGGRVPGRCGPRR PATWESPAACRPRPQSRHHSFE *GGSRS GSSHKRPCPSSPAVLRA RDQVVLHTSFEATEGDSSHEDR STPLARRCLCSHRSGEA
15342	45710	A	15432	1	2446	METSLMVQVCGGRDCNALLPG NLCSQPTQVLPLEVDGDDGPG GLPLNAAAPPSSVPPVPPSEALPP PACPSAPAPWRSIISRLFGTSPA AEAAHPPPGGALDFGALRTSSC LSQSHGHIPGGPGLGLGAVRVP VPSEEDPASLFTEPVPAEAPAT VQSVEDFVANDRLDRSFLEDM TPARDEKKVGAKAAQQDSDTG RASRAPEQQIPHGGHWRGHSRS YERFRPPDMVSAGPGPSDGEAL GGNPIVAGFQDDVDLEDQPRGS PPPPAGPVPSQDITLSSEEEAEV ADPPKGPAPAPQQCSEPETKWS SIPASKPQRGTAPMTAAASPWP GGASVHTGLEKCSSTRPPAEIEP GKGEQASSESDPEGPIAAQML SFVMDDPDFESEASDTQCRAVR RVLPAQRAENAYGSAFQPGAL KPECRPTLKGGPGPVPSKAGKK TEATSPRPTGGASPLAHGATVG AAWGLGMASWPIGSSLAPTRA RTREPRLQRRVGSELPGDPCSG SGASCRQVCARGRATSVRLPAL ESLWPLSSDGSAAREGLEGPR LRQAAAPGGPGPLPPLSRPPSP ARRMRGGA AVAGRGAAAPLE GRVRLGVGFLAETAVRAGAGA LAAADAPPGSRTPRARPLVAAG SGAAGGRCPVPSRRQREAPSPL GGAGVDLQLECLTSEKAGVGA ATGGVLEALARAIRQKKEIEIQ

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15343	45711	A	15433	26	963	FMIWAGQNRKVQDFVIQLRML TPVVPPPQAAPNAQQPRAAASA PQTRVRAPRWPLGNVVVLGTE DAAGPSRPASEPPASPALPGPAL ELGLPNHPKQT/HRPRLAPRRSH PKDSCTIFKLNSFLKNIKFNNSV GDQVNLDYKLISGTEYDILNFW NFRILAKTGCSKDGHNRNPSRP TQEEGSGKPKKSLVKERSGAQE DLPVPPEEKLELSGTSMGPCCFS KTSYGIPHIYILSYKGTATAG HRWPAAYAPLNCSPVPETTM PVSDLGSPLHWASRIATPPSMW LCCLLAAALRVLA VSNSSAEVY SQS
15344	45712	A	15434	803	1305	RSKPCRSSHNVFSWWAHSRPC CPWSGYSSRLCCLSCCITLGPY QLKNRQQRNGSYKSFGNLYCV GNRLLFWVWII FQKGGRS/WLP RSDWVTSYKVMVSNDSHTWV TVKNGSGDMIFEGNSEKEIPVL NELPVPVMVARYIRINQSWFDN GSICMRMEILGCPLPGWEH
15345	45713	A	15435	2	377	ARELLKAVWRPHKVAVMHCR GHQRASTLVGLGNSRADSEAR KAPSAPFRASVTAPLLPQAPDL VPTYSKEENDFLQAKGGQVME EG*IRLPDGRVAAVVLAVHETT HRGQELLEKLLGWYFYISH
15346	45714	A	15436	77	679	KMKTNQMGLKSKVVMENATIS EIRLNINRKDVEYQQEILQLEAV WKLHKVAVMHCKGHQRASTL VGLGNSRTDSESPKAASAPLRA SVTAPLLPQAPDLVPTYSKEEK DFLQVEGGQVMEEGCIRLLDG RVAVPQLLGAAIVLAVHETTHL RS/ESSLGKLLGQLFSTISHFVSL CQNLTRQCVTCRQHNRQGPA VPPGMQ

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15347	45715	A	15437	2	881	HARCTGIAARAGLLDPRHTGEA LAARSRIDLARRPHWPRGCGTG GGGGGCAGLGGAWLRGNDVA VPARALVTAAPASSSMSPPIPA AARPVSS\PAASPSPRCGLRAG PAELRCPRRLRQARAEPPRAG PAPGRRRPTPGICPAPLSPLRA GGTAPSLPGVTRGSRVGRRLRP SLGGAGCRVGKRPPRLPPGRR CSTGLPPPAGTGAPAGVCWED GDPGHELAALLRRLGGQIRAL AGHRTAGWAQHGLSPREAVRP APAARGTLLRRSNSRRHLQNP ANFGGTLAT
15348	45716	A	15438	3	502	GRRDSCLPGVVAPRACLHPRG QVPRLGSVGKMATPGMSWQQ HYYGGSAAKFAPSPATAQLAG HSMDYSQEMHLKMSKKIAQLT KVIYALNTKNDEHESAIQALKD AHEEEIQHILAETREKILQYKS KVTEELDLRRKIQVLESSLEDHI KMKQQALTEFEAYKHR
15349	45717	A	15439	29	230	LQIDCKNKPAILRGPTDPLKEA DCYCRTWERPQILLPKWEGTR KPILVI*QNKAHQHAPQITLLHQ
15350	45718	A	15440	73	335	FFWGGIEPCFVILSGSVFWFL IWVGASASPVVGDVFGRGSPF PTSTVGAFITVLWGVSWVLKRV CGSSWDC*FVLAINLELKFTM
15351	45719	A	15441	373	513	
15352	45720	A	15442	1585	1649	KNSNIQHSPKITLVHQQWFQTK KKFLIYLKKNSSGLVDP*MVHT TRLCADNPQYQPRARKSHS*VK GESTTLREHPMGQKNLNNSLQP
15353	45721	B	15443	1	696	
15354	45722	B	15444	49	525	
15355	45723	A	15445	113	474	SIPYKNKEEEEGKGGEYYIKGT CHGTKGSEQQPSALDLPDRAY PNEKEPEN*LW*LI*QNKAL*HS PKNHTSSP/RNGSKPRKKSILNL KKNSGG*LLS*LGRHQRKVKPN ARKSKNQYKK
15356	45724	A	15446	47	614	TGCPRCKQNSTCIAAVKMEGPL SVFGDRSTGETIRSQNDVTITN DGATILKLLEVEHPAAKVLCEL ADLQDKEVGDGTTSVVIAAEL LKNADELVKQKIHTSVISGYR LACKEAVFYLTENLIVNTDELG RDCLINAAKTSMSDDIGINGDF FAN/MVVDAVLAIHARHRGQ/P RYPVTLLY*SHGES



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15357	45725	B	15447	707	1826	
15358	45726	A	15448	108	397	
15359	45727	A	15449	1726	2464	SKAVQLEAGGLQLFCCKMAP DPNITDVFGR TALHYAVYNEDT SMIEKLLSYGANIEECSEDEYPP LFLAVSQRKVKMVEFLLKKKA NINAVDYLGRSALIHAVTLGEK DIVILLQHNIDVFSRDVYGKL AEDYASEAKNRVIFELIYEYER KKHEELSINSNPVSSQKQPALK ATSGKEDSISNIATEIKDGQKSG TVSSQKQPALKDTSKNDVSN TATEIKDEQKSGTVSSQKQPAL KDTSDKNDVSN TATEIKDEQK SGTSVFSETTGLEGYK
15360	45728	A	15450	2	675	
15361	45729	A	15451	1	467	DHSSSPAREQNWME\EFDEL T EVGFRRWVITNSSELKKHVLTQ CKEAKNLEKRLGELLTRITSLE KNINDLMELKNTARELHEAYTS INSWINQAEERLSEIEDQLNEIK REDKITEKMKNSTTVRVAASM QSKLLQGVAAEEGPLRLTRSASF
15362	45730	A	15452	2	632	
15363	45731	B	15453	355	894	
15364	45732	B	15454	99	716	
15365	45733	A	15455	1	1140	
15366	45734	A	15456	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVA VRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGV SQKNPRALGVTADQLH AIFTTMSDEQASFRGFVAIYLT EPLVRGFTTAAAVHVFTSM LK YLFQVKT KRYSGIFSVVYSTVA VLQNVK NLVCSLGVGLMVFG LLGGKEFNERFKEKLPAPIPLE FFADHNSSPAREQKWMENEFD EWTEVSFRRWVITNSSELKEHI LTQCKEAKNLEKRLEELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIR\ EKKRMKRNEQSLQ EIWDCVKRPNLRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPFIFNILKENFQTRISH
15367	45735	A	15457	1	1185	
15368	45736	A	15458	1	2367	

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15369	45737	A	15459	1	744	
15370	45738	B	15460	337	1515	
15371	45739	A	15461	1	1197	
15372	45740	A	15462	1	714	
15373	45741	A	15463	142	601	HQRTKVYKFTKMRKNQPKKPE NSK/TQNPSSPSKDHNSLPAREE NWMENEFDKLTEVGFRRWVIT NSSELKEHVLTQCKEAKNPDK RLEKLLTRIISLEKNINDLVELK NTA*ELLEAYTNINSQIDQVEEK I/S/SIEDQLNEIKLEDEIREKKKK
15374	45742	A	15464	153	474	QTKSNNVNIKKQDVHTKTPSEG HQHQRPK/DHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
15375	45743	A	15465	1	2172	
15376	45744	A	15466	1	1640	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGTRLRRAEDVFPPVI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWVPDLHIHAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPLMLRLAIETVAHDYDVI VIDSAPNLGIGTINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEPDHLTPAGNC YVVRNEDCIGFFSGFYNVISL GVYLVEQQKGWEDTHSKTPSK GHQHQRSKVDKSTKMRKNWS KNAENSKNQNALSPNDRNSSP ARAQNWMENKFDKLTEVGFR RQVITNTSELKEHILTQSKEAKN LDKRLQELLTRITSLEKNINDL MELKNTARELREAFSFCVNCE AVSLITSLREDSHWLEDSKGHR M/RRHQE*KCEYFHPPHPLQF YQLPESDSHSDPLWPHGGSFLS
15377	45745	B	15467	50	1603	

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15378	45746	A	15468	528	1413	QTERNSTSTSKTPSEGHQHQRPKVDKSTKMGRNQCKKA*\NSK SQNACCPPKDHSSLPAREQTMENEFDELTEVGFRRWVITNSS KLKEHVL TQCKEAKNLEKRLE ELLTRITNLEKNINDLMELKNT ARELREAYTSINSRIDQAKERM SEIVDQLNERNDRENGTKLENT LQDITQDNFPYLARQVNIQIET QRMPQRYYSRRVTPRHIVRFA K VEMKEKMLRAAREKDTSVK QKVNKDIQELNSALHQVDLIAI YRTLHPKSTEYTFFSAPHHTYS KTDHIVHSILCDSG
15379	45747	A	15469	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITSLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
15380	45748	A	15470	865	2055	QTERNSININKKDN YAKTPSKG HQQRPKVDKSTKMRKNQHK KA*KFPKPGMPSSPPK\DHNCSP ARE\QNWMEN\EFNEFDEL TGA GFRRWVITNSSSELKEHVVTQCK EAKNLEKRL\QELLTRITSLEKN INDLMELKQDITQENFMKHTQ VSIAQADQGRKERVSEIEDPTL MDIKCEDKIREKK/IKKRNEQSL QEIWGYVKRPNLRLISVPESDG ENGK*ENILQDIIQENF/PFPNL TRQANIQIETQRTLQRYPLRR ATPRHIIIRFTKVEMKEKMLRA AREKGRVTHKGKPIRLTENLSA ETL*ARRE**PILNILKERNFQPR ISYRAKLSFISK/GKREIKSFIDK QTLRDFVTTRPALQELLKEAVN MERKNQYQPLQKHTKLKRPLT
15381	45749	A	15471	1	315	
15382	45750	A	15472	1	2775	
15383	45751	A	15473	1	1017	
15384	45752	B	15474	1	3105	

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15385	45753	A	15475	1	1115	MKWL LLLGLV ALSECIMYKVP LIRK KSLRRTL SERGLLKDFLK KHNL NPARKYFPQWEAPTLVD EQPLENYLDMEYFGTIGIGTPA QDFTVVFD TGSSNLWVPSVYCS SLACTNHNRFPEDSSTYQSTS ETVSI TYGTGSMTGILGYDTVQ SGYHHGNHRLNLKGLCSSKRSS TTPPLYDLGQVASPPSGSVSSC DDQSGSVVIFGGIYSSYYTGGL NWVPVTVEGYWQITVDSITMN GEA\IACAEGCQA\IPEPGTFFVT GP\TSPIA\NIQSDIEA\SEELDG\D SVLICSAISS\LPDI\VF TINGVQY PVPPS\AYILQSEGSCISGFQGM NLPTSEELWILGDVFHPASTLT VF\DRANNQVGLAPVA
15386	45754	A	15476	1	765	
15387	45755	A	15477	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNC SFLKIASSSGE YLRPTPSYLNQVVRVTMT
15388	45756	A	15478	1	896	CLPFGGPKPNPWDKDGQCQGR PQPRHLPGPGTAAQRRQCPSE KSL\CRWPSLTASTCSRLFYIL LHV GAS/CNLLPPAVKDSSGKG VGQDTQVLSGSGAVYRVCAGT ATFHLLQAVLLVHLHSPTSPRA QLHNSFWLLKLLFLLGLCAIAF CIPDEHLFPAWHYIGICGGFAFI LLQLVLITAFHSWNKNCNEAS YLAEVFGPLWIVKVYSYEFQKP SLCFCCPETVEADKGQRGGAA RPADQETPPAPPVQVQHLFLQL FCLPLRLLPWLTLCHGYPYQLV QASAGCGCKPFAPYSL

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15389	45757	A	15479	1	1016	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARIVP GFIRIARPRDGSFAYESVPWQQS ATQPAGSLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTGYAGGPGGLGLPSH AARPSTDFTQAAAAA VAAAA ATATATAT/GHRGCSPGEAEPG AEP\DGAMGAGQSFNSQFLQHG GPRGPSVPAGMNPTGIGGVMG PSGLSPLAMNPTRAAGMTPLY AGQRLPQHGYPPQAQPLPRQ GVKRTYSEVYPGQQYLQGAYP VHSGLSQFPTWQETPRHP
15390	45758	C	15480	1	585	
15391	45759	B	15481	1	885	
15392	45760	A	15482	3	440	GPWPRPVAYLSKQLYRVSKGW PPGLRALAEMALLAQEADKLT LRQNPNI/IGHAVVTLMTTKG HH*FTNARLTYVKIPT*PLKF/G NTLNPTTLLPVSESPVEHNCVD VLDSVYSSRPNLRDHP*TSVDC ERYVDRSSFTNRCKVTR
15393	45761	A	15483	3	368	
15394	45762	C	15484	109	276	
15395	45763	A	15485	1	1710	
15396	45764	A	15486	221	784	QNSLRSMCQKEKKMAAGVLT HTC\GPWPRPVAYLSKQLDRIS KGWPPGLRALAATALLAQEAD KLTL\GKT*I*RPPHAVVTLMNT KGHHWLTNARLTKYQSLLEN PHITTEVCNTLNPTTLLVSESL VEHNCVEVLDSVYSSRLNLRD HP*TSVDW*LHVDGSSFTNPCK VTLKKMTSAAPVTPRS
15397	45765	B	15487	509	661	

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15398	45766	A	15488	1370	2243	LGKLRLESCGLVA AVRPHSGGL AMPLPNATRPASGRSED/AELK LALEHGHRSESLQGRKHRGVH DNSDIPQAALVGGTTMIIGHVL PDKETSLVDAYEKCRGLADPK VCCDYALHVGITWWAPKVKA EMETLVREKGVNSFQMFMTYK DLYMLRDSELYQVLHACKDIG AIARVHAENGELVAEGAKEAL DLGITGPEGIEISRPEELEAEATH RVITIANRTHCPIYLVNVSSISA GDVIAAAKMQGGKVVLAETTTA HATLTGLHYHQDWSHAAAY VTVPLRLGIPPH
15399	45767	A	15489	307	600	VSRRASSGSPVPLGSLHLQHSA PA/PSAAPKPRSPPARLSRPHLR GESAAPSPSPGPASLAAAAAA RVPAQPSAPSTTPAPRTTLAPR VPHRLAPAP
15400	45768	A	15490	3	222	
15401	45769	B	15491	1	1131	
15402	45770	A	15492	136	201	
15403	45771	A	15493	3	556	ELPRRLVCSKLRADPGRITPDA CARPGMSRYLLPLSALGTVAG AAVLLKDYVTGGACPSKATIPG KTVIVTGANTGIGKQTALELAR RGGNIILACRDMEKCEAAAK\D IRGETLNHHVNARHLDLASLKS IREFAAKIIIEEERVDILINNAGV MRCPHWTTEDGFEMQFGVNHL GHFLLTTC
15404	45772	A	15494	11	559	
15405	45773	A	15495	1	312	MAPAADREGYWGPTTSTLDW CEENYSVTWYIAEF\SWLMSGF LPTPSSLRDLTASRWVRSPLPSR SPAGRQPGPAEELPKASPCPWG KSLSRPFASFSSASSGPS

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15406	45774	A	15496	2	1605	WQLPHPPAAPSARQILRACQLS SVTAVAQSCLYGKQLC/GLTTG NIAGAGLLFFGGGIGGTILYAK WASHFRERVEKTIPYSDKLFEV VLGSAPYNVPLPKKSTQSGPLK ISSVSEVTKEFKQPASQLQKQK GDTPASATAGDTVLPVGVQHE ESLKTDPHAIDEGKPTPALSEEA SSSSIRERPCEEIAACLAQEEKQ EQVKTESLAKSFEDALRQTANV TLQAIAAQNTVVQAVNAHSNIL KAAMDNSEIEGKKKSAAKWHV QGALKEHRKAVDEAANALLKA KEEVQAAQFESKLVSQYHEL GQAQDDFKRQLDSITPEVLPGW KGMSVSDPADKLSTDDLNSLIA RAHRHIDQLNRELAQKATEK QHITLAEKQTLLEEKVQEQELK YEFQNLSEKLSEQLQFHHL QEQVHNFTLDINTAYARLRGIE HAVQSHAVAEAEARKAYQLW LSVEALKYSMTSSAEMPAVPL GSAVEAIKANCSDNEFTKALAT AIPPELTHGVYSEETLRVRFYA VQKLARRVAMID

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15407	45775	A	15497	89	2490	PKCCFFCLLSGETAAQSCLCG KVVLRPLRPCRRYSTSGSSGLT TGKIAGAGLLFVGGGIGGTILY AKWDSHFRESVEKTIPYSDKLF EMVLGPAAYNVPLPKKSIQSGP L*ISSVSEVM\KESNRPASQ\LQK QK\GDTPASATAPTEAAQIISAA GDTLSVPAPAVQPEESLKT DHP EIGEGKPTPALSEEASSSSIRERP PEEVAARLAQKEKQEQVKIESL AKSLEDALRQTASVTLQAIAAQ NAAVQAVNAHSNILKAAMDNS EIAGEKKSAQWRTVEGALKER RKAVDEAADALLKAK*LLMDF NKEELEKMKSVIENAKKKEVA GAKPHITAAEGKLHNMIVDLD NVVKKVQAAQSEAKVVSQYH ELVVQARDDFKRELD SITPEVL PGWKGMSVSDLADKLSTDDL N SLIAHAHRRIDQLNRELAEQKA TEKQHITLALAEKQKL\EEKRAF\ DSAVAKAFRNIHRKLKYRA*TG QKR*KEVRDAME\NEMRTQLR RQAAAHTDHLRDVLRVQEQEL KSEFEQNLSEKLSEQELQFRRLS QEQVDNFTLDINTAYARLRGIE QAVQSHAVAE EEARKAHQLW LSVEALKYSMTSSAETTS\IPL GSAV\EA\KANCSDNEFTQALT AAIP\PESLTRGVVTVKRPLGAR FYAVQKL\ARRVAMIDETRNSL YQYFLSYLQSLLLFPPQQLKPPP
15408	45776	A	15498	1	1212	MPKKRQALVEFEDVLGACNAV NYAADNQIYIAGHPAFVNYSTS QKISRPGDSDDSRVNSVLLFTI LNPIYSITTPTRLNVFKNDQDT WDYTNPNL SGQGDPSNP NKR QRQPPL LGDHPAEYGGPHGGY HSHYHDEGYGPPPPHYEGRRM GPPVGEYGPHADSPVIMVYGL DQSKMNC DRVFN VFCLYGNVE KVKISLKKQSPGGRPMGEEWL\ DGYAVDRAITHLNNNFMFGQK LNV/CVGAQAREGSRGTGERK GGEWGPAEEHSEAEVLTHTEM GCGSVSKQPAIMPQSYGLEDG SCSYKDFSESRRNRFSTPEQAA KNRIQHPSNVLHFFNAPLEVTE ENFFEICDELGVKRPSSVKVFSG KSERSSSGLLEWESKSDAETL GFLNHYQMKNPSINLVT



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15409	45777	A	15499	1	645	
15410	45778	A	15500	3	677	SPPNPRAPYLFPASLQNPANWS PHFQYLPILSQPRSVLTAFRQQA QPRISMPQAQTPFRPQMERLDQ NIRRSNPQHSLKPKLIQSKALT LFNSVKAEEKDEEAAEEKFEVTR VVHIRGLIDGVVEADIVEALQE FGLISYVMVMSKKRQALVEFE DVLEACNAVNYTADNQHIAAG HPAFVNYSTSQKISRPGNSDD\R SVNSVLLFTILNPIYSITTDVLYT
15411	45779	A	15501	2	1712	DEQRRRSGAMVKMAAAGGGG GGGRYYGGGSEGGRAPKRLKT DNAGDQHGGGGGGGGGAGAA GGGGGGGENYDDPHKTPASPVV HIRGLIDGVVEADLVEALQFEG PISYVVMPKKRQ\SLV*FEDVL GAGNAV\NYAADNQIYIAGHPA \FVNYSTSQKISRPGSDSDSR\SV N\SVLLFTILNPIYSITTDVLYTI\ CNPCGPVQRIVIFRKNVQAMV EFDSVQSAQRAKASLNGADIYS GCCTLKIEYAKPTRLNVFKNDQ DTWDYTNP\NLGGQGDGPNPN KRQRQPPLLGDHPAEYGGPHG GYHSHYHDEGYGPPPHYEGR RMGPPVGGHRRGPSRYGPQYG HPPPPPPPEYGPHADSPVLMV YGLDQSKMNGDRVFNVFLY NVEKVKFMKSKPGAAMVEMA DGYAVDRAITHLNNFMFGQK LNVCVSKQPAIMPGQSYGLED GSCSYKDFSESNNRSTPEQA AKNRIQHPSNVLHFFNAPLEVT EENFFEICDELGVKRPSSVKVFS GKSERSSSGLLEWESKSDALET LGFLNHYQMKNPNGPYPYTLK
15412	45780	A	15502	1	528	NHQIRNDFTISPGVKADSRSTPI PQQPASSFDITEAAVSFAKDSLA GGVAAAISKMAVAPIERVK/RV PKEHGVLSCGNLASVIRYFP\ TQALNFTFKDKYQIFLDGVDK RSQFWRYFAGNLASGGATGAT SLCFVYPLDFAHTRVAADV GK AGAERELRGFGDCLVKIYKSDG IK
15413	45781	A	15503	1	1452	

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15414	45782	A	15504	2	991	RSAGVKAGSRPSPVLQQSASSF NMTDAAVSFAKDFLAGGVAA AISKTA VAPIERVKLL LQVQH ASKQIAADKQYKGII GCVVRIP KEQGVLSFWRG NLANVIRYFPT QALNFAFKDKYKQIFLGGVDK RT\QFWRYFARNLASGGAAGA TSLCFVYPLDFARTRLAADV GK AGAEREFRGLGDCLVKIYKSDG IKGLYQGFNVSVQGHIIYRAAYF GIY\DTAKG\MLPDPK\NTHIV\ S W\MIAQTVHCCCPG*LPYPFDT RS/VRRNE*MQSGRK\GT\DIMY TGTL\DCWRKIARDEGGKAFFK GAWSNV\LRGMGGAF\VLVLYE *KSKKYT
15415	45783	A	15505	1	613	
15416	45784	A	15506	1	1695	
15417	45785	A	15507	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERV SAMED EINEMKRE EKFREKRVKRNEQSLQEIWDYL KRPNLRLIGVPESDGENGT KLE NTLQDIIQENFPN LARQANIQIQ EIQRMPQRYSLRRATPRHII VRF TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNI LKEKNFQPRISYPAKL
15418	45786	A	15508	1	3156	
15419	45787	A	15509	1	879	
15420	45788	A	15510	1	804	
15421	45789	B	15511	1	1230	
15422	45790	A	15512	2	827	
15423	45791	A	15513	1	1011	
15424	45792	A	15514	1	1722	
15425	45793	B	15515	1	780	
15426	45794	A	15516	1	2712	
15427	45795	B	15517	1	855	

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15428	45796	A	15518	3	1263	GRTIQTKGKEV\ENFEKNLEECI TRITNTEKCLKELMELKTKARE VREECRLRSQCDQLEERVSAM EDEMNMKQEGKFREKRIKRN EQSLQEIWDYVKRPNLRLIGVP ESDVENGTKLENTLQDIIQENFP NLARQANVQIQERQRTTPQRYSS RRATPRHIIVRFTKVEMKEKMG LLVPNWTNHSPLFRILFDYKG FCRFGTTHQTGFSPAGANQRGP LAATLSGPGGEGQSAVARLTGL IGVPESDVEKETKLETTLQDIIQ ENFPILARQANVQIQEIQRTPQR YSSRRATPRHIIVRFTKVEMKE KMLRAAREKGRVTLKGKPIRL TADLSAETLQARREWGPIFNIL KEKNFQPRISYPAKLSFISEGEIK SFTDKQMLRDFVTTRPALKELL KEALNMERNNRYQPLQNHAK
15429	45797	A	15519	1	1137	
15430	45798	A	15520	1	1578	
15431	45799	A	15521	1	1656	
15432	45800	A	15522	1	1120	
15433	45801	B	15523	1	1541	
15434	45802	B	15524	1	1632	
15435	45803	C	15525	53	352	
15436	45804	A	15526	1	973	MGKKQNRKTGNSKMQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELQRVSAMEDE MNEMKREGKFREKRIKNEQS LQEIWDYVKRPNLRLIGVPESD GENGTKLENTLQDIIQENFPNL ARQANIQEILRIPQRYSSRA TPRHIIVRFTKVEMKEKMLRAA REKGRVTLKGKPIRLTVDL TLQARREWGPIFNILKEKNFQ RISYPAKLSFISEGEIKYFTDKQ MLRDFVTTRPALQELLKEALN MERNNRYQPLQNHAKM
15437	45805	A	15527	1	2896	
15438	45806	B	15528	50	658	
15439	45807	A	15529	1065	1260	RSHALALDSAGSSSPESPH*RAS IPHTALGQNAGSWAGTAHSHH GPFLWSDPRHPQVPHRTCCP
15440	45808	A	15530	96	219	EFSTKPLSGP*SSWEMLILEPL APDTTIDLKLLYSRDF

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15441	45809	A	15531	5459	6324	LLANVSQLLADISQLLANFTQL FSHFSQLLTYLSKLFTHLPQLLT HFPKLLTHQPELFSNQSOLHPNI TRYSPSPSYSPSPNYTPTSPN YSPTSPSYSPSPSYS/RDLTKLL PFQPTIHTTVSNLYPKLTQLQPQ FAQLQPNLTQVAPPTSPSYSPSSP EYTPTSPKYSPTSPKYSPTSPKY SPTSPSYSPTPKYSPTSPYS\Q PLQSTPQPLPSTHLLAPLTRPLP PSTRPPAPPTRPPPPKAQPTLPLP LVTRPPAPPTVSQARLSARMTV TRRTEGTWGAAAG
15442	45810	A	15532	13	941	SVVLRPLLVVAAATATTPVAA AAATNTAKKTATVMVGEMVA GERGVLQMGHDITRFFYSNIQT VINNWLLIEGHTIGIGDSIADSK TYQDIQNTIKKAKQDVIEFEN QVPRILNDARDKTGSSAQKSL EYNNFKSMVVSAGKSKINISQ GGGSQGGRGPPISMWLLALC LVGLAGAQRGGGGPGGGAPG\ GPGLGLGSLGEERFPVNTAYG RVRGVRRELNNEILGPVVQFLG VPYATPPLGARRFQPPEAPASW PGVRNATTLPPACPQNLHGALP AIMLPVWFTDNLEAAATYGGC FRVPKKA
15443	45811	A	15533	207	696	TNLQEKKNQPHQKV GKRYKQT LLKRRHLCSQQAHEKMLIITGH QRNANQNHNEIPSHTS*NGDH* KVRKQQMLERMWRNRNAFTL WVG*TSSTIVEDSMAIPQGS TRNTI*LSHPITGYIPKGL*IMLL *RHMHTYAYCGSIHNSKDLEPT QRSINDRLD
15444	45812	A	15534	1	307	
15445	45813	A	15535	1	381	LPPPHDRLWCVMFPTLCPVLI VQFPPMSENMRCLVFCPCNSLL RMMVSSFIHVPTKDMNSGIL*S RPADIELFSINLVNKKIFLKGKF GDPLSLQRQLRNIVFSMPCCFPS FLLPWVFSQLSVKPH
15446	45814	A	15536	134	278	DPAFLAPSPV/LMKQAPQATSG LMEPPGPSTPIVQRPRILLVIDD AHTD
15447	45815	B	15537	1	840	
15448	45816	C	15538	1	891	

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15449	45817	A	15539	1	3102	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQAHRRARILPEEKVL RLHYANCKAYNADFDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFFTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMISIDA EKAFDKIQQPFMLKTLNKLIGID GTYLKIIRAIYDKPTASILNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEK
15450	45818	A	15540	1	779	IPMKDHDAIKLFIGQIPRNLDEK DLKPLFEEFGKIYELTVLKDRFT GMHKGCAFLTYCERESALKAQ SALHEQKTLPGMNRPIQVKPAD SESRGEDKKLFVGMNLKQQSE DDVRR\LFEAFGNIECTILRGP ERQTAKGCAFVKYSSHAEEAAG RPSTRLHGSQTMPGAFFVPVWV GQVSADTDKERTMR\RMQQMA GQMGMFNPMIAIPFGAYGAYA QALMQQQAALMASVAQGGYL NPMAAFAAAQMQQMAALNM NGLAA
15451	45819	A	15541	1	1413	MEYYAAIKKDEFISFVGTMK LETILSKLSQMOKTKHRIFSLIV LCDITDILKEFTVAEAGGFALNE IMKEICKSRFSKAVSLHWKMW HSTASLGYHRVNVNPDPLNLC LGHCWLGLRDTGQKQACGGP GVCPGMFRRACGGNAPCKEAP SVTEASSPDGSVLCGLSHVPITP APLSSAQMVCHMVEDRRTVEL ILGATHNLFFSTSPLTWSLRAIP GNCVLFLKDYVTEPVRSQSILHI AGPTFKQTPNLPFLKFPEATKA HGPNVYQNDSTCPEPTAQVSH WSSVSSTLIASPVPGPEDRKLFV GMLNKQQSEDDVRRLFEAFGN IEECTILRGPDGNSKARPLASSQ GAPSVKYSSHAEEAQAINALH GSQTMPLMQQAALMASVAQ GGYLNPMMAAFAAAQMQQMAA LN\PNGLAAAPMTPTQANGQP AAEINFANGIHPYPAQSPTAAD PLQQAYAGVQQYAGR

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15452	45820	A	15542	254	883	DLRKDSPWEHRQCDKREPGNS APPAPHSWGFAVFNPRAGDVR QLCKRADTRTPSPRAPFGSAGA CRGCGRAGARSLASPKARTCIS SARRRAGGPLQLGAGSGQAKR PDR*TRREGANA*KTLHL/HSSL APSPGGVLAGFQEPGRPQVAC CAATAAGGIRAGERR/PAAAAA AAPWAQKLRRRLRQRRGPPGC R**MVSFPRLFSGSTSR
15453	45821	A	15543	1	768	MCDFGKSTSLPASPTSSSANGR DNSTYRLKEQGGFMHVSASRD SCAESARYTDAHYAKSGYGAY TPSSYGANLAASLLEKEKLGFK PVPTSSFLTRPRTYGPSSLLDYD RGRPLLRPDITGGGKRAESQTR GTERPLGSGLSGGSGFPYGVTN NCLSYLPINAYDQGVTLTQKLD SQSDLARDFSSLRTSDSYRIDPR NLGRSPMLARTRKELCTLQGL YQTASCPEYLV DYLENYGRKG SASQVPSQAP\PSRVP

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15454	45822	A	15544	85	2249	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEIKAKNYDK GEKLFQRCLMKVLHIDLWKCY LSYVRETKG\KLPSYKGKMAQ AYDFALDKIGMEIMSYQIWVD YINFLKGVEAVGSAENQRITA VRRVYQRGCVNPMINIEQLWR DYNKYEEGINIHLAKKMIEDRS RDYMNARRVAKEYETVMKGL DRNAPSVPPQNTQPQEAQQVDM WKYIQWEKSNPLRTEDQTLIT KRVMFAYEQCLLVLGHHDPDIW YEAQYLEQSSKLLAEKGDMN NAKLFSDEAANIYERAISTLLK KNMLLYFAYADYEESRMKYEK VHSIYNRLLAIEDIDPTLVYIQY MKFARRAEGIKSGRMIFKKARE DTRTRHHVYVTAALMEYYCSK DKSVAFKIFELGLKKYGDPEY VLAYIDYLSHLNEDNNTRVLFE RVLTSGSLPPEKSGEIWARFLAF ESNIGDLASILKVEKRRFTAFKE EYEGKETALLVDYKFMDLYP CSASELKALGYKDVSRAKLA IPDPVVAPSIVPVLKDEVDRKPE YPKPDTQQMIPFQPRHLAPPGL HPVPGGVFPVPPAAVVLMLKLLP PPICFQGPVQVDELMEIFRRCK IPNTVEEAVRIITGGAPELAVEG NGPVESNAVLTKAVKRPNEDS
15455	45823	A	15545	12	427	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSIL IREAQV**YRITFPSLWVQSHYL VLPVNNIFIILTL*MLFIGFQF*N QPIDKARKTYERLVAQFPSSGR FWKLYIEAEVTILFYFFLYQYCS IHL
15456	45824	A	15546	150	469	SAEAMSGDGATEQAAEYVPEK VKKAEEKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEVTILFYFIFS YISIAAFTVVIENKLGT
15457	45825	A	15547	1	834	
15458	45826	A	15548	443	732	SFMRWQKGQLPQLCLHRESHC SPYPQPSFLGMEP/ADIHETTFN SIMKCDVDIHKGLYANAVLSSG TTMYPGIA\NRMQKEITALAPS MMKIKIAPA

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15459	45827	A	15549	1	1214	MEEIEAALVIDNGSGMCKAGF AGDDAPRAVFPSIVGRPRHQGV MVGMGQKDSYVGDEAQSCKRG ILTLKYPHIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTE APLNPKANREKMTQIMFETFNT PAMYVAIQAVLSLYASGRRTGI VMDSGDGVTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILT ERGYSFTTTAEREIVRDIKEKLC YVALDFEQEMATAA\SSSSLEK SYELPDSPRSSTNWQLSGFRLPL RHSFQPSFLGMESCGIHETTF\N SIMK\CDVDIRKDLYANTVLS GRTPPCTLGIADRMQKEITALA PSTMKIKIIPPERKYSVWIGGF HPWAWLSHLSSKMWVQQARS MTESGPLHSSTANGFLGGLLTL VAFTPFLWTKP
15460	45828	A	15550	1	2355	MKQITFAPRNHLLTNTNTWTPD SQWL VFD MRTSGASFTGETIER VNIPTGYVEKPNKQCRHSVTRY GHGGHSDHTPSLT VATVATQIT PRHSGHSGHCDRNLSLATATA ATLITPHHLLWPRWPLGSHSVT WCGHGGHSDHTPSPTTATAVT RITSRHPLRPQQLGSHPVTHYS HGSHSDCIPVTRYAHGGHSDHT PSLAMATAATQMALCHSLWPR QPLGYLVNKIRRKRCTDGVSPS GKAPVFDTGIPWFESRYPSHLL RVSGSPPGYWGI AKRHQILNVS NMF GKFKTNLLGYRQAVRHRI LIPAFRGSNPRTPANLFKTLTLIS NMRALENDFFNSPPRKTVQFG GTVTEVLLKYKTAIEKRLEKLA VDPHRDRAQMLKVENVQQAW QQWINKLPPARREDEDVKEIR WMIEELRVSYFAQQLGKNSRA ESMLWSFHKAAIEAARTNIIQA QTRVEAAQATERRIAADIDDSE LKAPRDGRVQYRVAKPGEVLA AGGRVLNMVDLSDVYMTFFLP TEQAGTLKLGGEARLILDAAPD LRIPATISFVASVAQFTP KTVET SDERLKL MFRVKARIPPELLQQ HLEYVKTGLPGVAWSFLYSINQ TICLR LDSIEAKLQALEATCKSL EEKLDLV TNKQHSPIQVPMVA GSPLRTTQMCNKVR/CVNP*AT VVPPPVPQPTTQQYQGLDAGA



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15461	45829	A	15551	1	956	MSSGRRDALARGLGNSGDGAP HLGEHRQLEDVGGVTVTVTWT GRLQAAGCWTRSVSSTAAAGR REPSTRDGAALSTEPPDPPERLG HRGSRAGLTALGHVTRTGSSQ RGGRPPEPWEHWLENGTRRTEL VDGVSYESWRRRRCRGQLESR LVLENHVATDEDEPALKCQRL EINCQDPSIKSFLYSINQITICLRL DSIEAKLQALEATCKSLEEKLD LVTNKQHSPIQVPMVAGSPLRT TQMCNKVR/CAMHWLCVSCIF TCLPGWRPAAPDQGPAAISLCS LPSSSQGHREPLALGLPSALPPA HRQRLRGSATVPIPP
15462	45830	B	15552	161	925	
15463	45831	A	15553	31	856	GGFLHHASFFVGRGRTLLMYFS LLGATPKPEPEPEQVIKNYTEEL KVPPDEDICMEKLSAASGYS DVTDSKAVGPLAVGCLTKCSH AFHLLCLLAMYCNGNKGPPEHP NPGKPFTARGFP\ASATFQTTP\ GPQELVPYTPQITAWDLEGKVT ATTFSLEQPRCVFDGLASTNDT VWL VVAFSNASRGFQNPETLA DIPASPQLLTDGHYMTLPVSPD QLPCDDPMAGSGGAPVLRVGH DHGCHQQPFCNAPLPGPGPYR WVVPTGALGLGLCLG
15464	45832	A	15554	827	1371	GSSAGEASSLRLSPSQPISRPL LPAGEKVLVVWIEDQTSNIPL SQQSKT/TLFNSMKAERGKEVT EEKLEARRGWFMRFKERSCFPN VKVQGEAANADIEAVACYPEY LAKITDEGGYTEQQIFSVDETA LYWKKMPSRTFLARRKNCHSH PSFSSQHLVQSAAINIKAKSSTS KKIMTP
15465	45833	A	15555	799	906	FLNKLAFALRCGLALNSFLRKI QEPSLG\SKSGSL
15466	45834	A	15556	143	560	

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15467	45835	A	15557	1059	1940	QQMQQEMRRKSKWMAMLGK WETYQNS/TKGHLMKRVYKGI PMNVRAEVWSVLLNIQEIKA NPRQYRVMKEKGKRSSEHIHQI DLAVSQTLRNHMFDRYGTK QQELFYILLAYS KYNPVVGYCR DLSHIAALFLLYLPEEDTFWAL VQLLASERHSCRVEQLPLGLH AARPGDGHGPGPRHLPCVASLL GAFRTSLLTVPKEPGTDPPEPKS DAFHPHQQKASHPPRGCPCLPG ATPSGSDSVQLALRNLRVLLPF SCSGSSCPWYPRKEALHPGGLE EQRGLQPLMGLVTG
15468	45836	A	15558	123	448	ALAAAVYPHSERTGEEAKKIC SVR*LLRSAQEEI/FLRGKNSRT GVL*KLLQRK*RYQRALGLAM LSEWTISPKGPVSTGITKPLTA SRVTVPRMTMSALLDFIHGA
15469	45837	A	15559	1	6387	
15470	45838	A	15560	52	3218	
15471	45839	A	15561	3602	4015	GSVESPLGQKTPRTSSASPCWPS TNLYRMELEYGPHVTSQVVK STRCAPIRWSAAPSILCEVRVPV TMWTCLPLPATGRLSMW*IWP RQWPCVLTSATQS*LTRCGGGT RAVSLAPQSHL*VCPAQSSWTS IILWT
15472	45840	A	15562	932	1316	RVQDIPAKRGIPQFRPKIKGIGQ SYKQHYPARPWNVLAQKV/V FEDQDALLPCLLTDPVLEAGVS LVRVRGRPLMRHTNYSFSPWH GFTIHRAKFIQSQDYQCSALMG GRKVMISISIRLKVQKAVNRA
15473	45841	A	15563	1	263	
15474	45842	A	15564	66	185	
15475	45843	A	15565	1	4217	MRLAEERAALAAENADGEPGA DRRLRLLGTYVAMSLRPAAGA WERCAGSAEAEQLLQAFGRD AAEGPRPLLVRPGPRGLAIRP GLEVGPEGLAGAKALFFLRTG PEPPGPDSFRGAVVCGDLPAAP LEHLAALFSEVVLPVLANEKNR LNWPHMICEDVRRHAHSLQCD LSVILEQVKGKTLLPLPAGSEK MEFADSKSETVLDSDKSVIYAI ESAVIKWSYQVQVVLKRESSQP LLQGENPTPK\VELEF

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15476	45844	A	15566	26	494	RPGCGEWLGNALWGQECQL HYSPPVSPWENSSGPRFSISKTG SLIPPLNDICQNQKPQIILSHPA RCLGLLDHFPQQWERRQAQNR AETG*GQRSAQGQTFRQRPLSV SGNCRVPPRATVSRK/PRPAPAY ALSLKSPRRRPRTGPAPPGLVP
15477	45845	A	15567	1	1242	
15478	45846	A	15568	114	1219	VDLPPGAPVRQSGSHGSVLRDH KTEGEARVLP LHQRVGKAGGR GATPGPHVEDPVTICCGHSFC RP/C/ICLSWEEAQSPANCRA EPSQKKDFKTNILLKNLVTIAR KASLWQFLSSEKQICGTHRQTK KMFCMDMDKSLCLLCSNSQEH GAHKHYPIEEAAEEHREKLLKQ MRILWKKIQENQRDLYEERT AFLWRKRTLRLKGMTSGAQGT SQKVALGLLQQPLCHTVRAQS NSARVHKQRGGDAVSSGAGIP DPKAQRFPATLRSQAFTCTAGR RWGSGETVLHPLQRAGVRGAV AELHRQLLSSSAAGFEECEGL CTSGPHITQGPDHQELYLSHEG VWTFLTCTGDRWKVLSGVPCP

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15479	45847	A	15569	1	2694	MRMAATAWAGLQGPPLPTLCP AVRTGLYCRDQAHAEATDVV LLAPFCQPKTRSHGTCPPTERDP RGEGSTEYPGRVDGIQGWGTR ALTGWTDRLLCQACQTLPPR HWFLPGARGWLGGSPCAHGQE SLPSQSPILLRVESVKSRMLRR RAQEEDSTVLIDVSPPEAEKRG SYGSTAHASEPGGQAAACRA GSPAKPRIADFLVWEEDLKLD RQQDSAARDRTDMHRTWRETF LDNLRAAGLCVDQQDVQDGN TTVHYALLSASWAVLCYYAED LRLKLPLQ\DYPTRPPTGRPAC/ CAWLGI PNVLLEVVPDPPEYY SCRFRVNKLPRFLGSDNQDTFF TSTKRHQILFEILAKTPYGHEKK NLLGIHQLLAEGVLSAAFPLHD GPFKTPPEGPQAPRLNQRVLF QHWARWGKWNKYQPLDHVR RYFGEKVALYFAWLGFYTGWL LPAAVVGTLVFLVGCFLVFSDI PTQELCGSKDSFEMCPLCLDCP FWLLSSACALAQVREEAGRLF DHGGTVFFSLFMALWAVLLE YWKRSATLAYRWDCSDYED TEERPRPQFAASAPMTAPNPITG EDEPYFPERSRARRMLAGSVVI VVMVAVVVMCLVSIILYRAIM AIVVSRSGNTLLAAWASRIASL TGSVVNLVFILILSKIYVSLAHV LTRWEMHRTQTKFEDAFTLKV
15480	45848	A	15570	1	924	MISQFIPENYFSGKSSATSGWA RAQRDFRVGAGSARPALLSGRL APPALGSERLSTRASSCGGLPR ATPRGRAPPPATRHVPSTAQR LRSAAARQRLAGSSARGDAL GKASWAPESVLEVLARAVRQE KEIKGILLGKEEVKLSLFAGDMI VYLENPIISAQNLLKLMSNFSK VSGYKISVQKSHAFVYTNNRQS ESQIMSELPFTVATKRIKYLGIQ LTRDVKDLFKENYKPLLNEIQE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPKLPMTFFTE LEKTK\FIWNQK\RAHIAKTIL
15481	45849	A	15571	1	825	
15482	45850	A	15572	1	1488	

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15483	45851	A	15573	1	1476	MPIKVDWIKKSRHTPTDRTMSP KRGINISIQEYRNTPDASILSEL LERDTNTQVYTYEQEHTNKN GHQAIDKQNKGHIRRESDRGEY YPLDCRPTGSLTDKGWGMMLC GMMTAGKPTPILTFLLDVGLPG GTAINKSSVIRVRNREEGNVEK WGERQVDQRDAVMRVRCGIR NNVEAGLKYGPGTMKVSLSVF YTTQQCRRYLSVLCFAGLARAS VPFNEFQMSLDEKLFSNLHPL GSSSSPPKSLHLCPLLEHQFTML GFSDLGAQLASPSGSHTRAAGV AACQPAPTLTWLSPVWARGLG TLEQGVVLVGEARAAQEPMEW VGGSCMVGCRSRALPRGAAK AWREIQRSAGAGGAPVSPWSG GAPSRACPPSASSVRFLCAARR LACNTYSPVLYCVRNWWILGL TDFNNEATDPRDPFLANVPQQL AAVAIGTCDGNVYSAGDRDYR FALESILKACTLALALEEVGPPA VQDKIGADPTGLPF
15484	45852	A	15574	140	448	GFLGACAGREFKMAP*SSLG *KLSVSPCPGLLISAEGPEAVFSI V*NARVRGFILEVSETKNPIPD TISTKHASLMSDSYREKKLV VYPHSSTPSFQ
15485	45853	A	15575	1	1001	MEAPQGALEQDGPVLSQQRH RKKPFTATPIDPSYHRSHAISLS VIIGYCVPPSHAAEMAAYGWT MGKSKLMAGQWITQSQVFCDS STDGPRQHKQAQTAILTKLQSQQ RSTNNSTVSHRQQWVNCRLLR VKCQRLRAHKELLPVQRWLWR QGRCVPTTSLVAVSETAGAGA AALALSRLCRCLQVSASARFES SRTLSPQPKCWAMAASHQPIKG ILKNKTSRTSSMVALSEQPCRT VHEELSKKCQKWDEMNLSTY HPADKDYGLMKIDEPSPPYHG\ LTGDDENACSDTETTETMVSDI LAKKLAAAEGLPKYWVQE SSGEEDLLAEE
15486	45854	A	15576	1	1851	
15487	45855	A	15577	73	418	GKPDGDKVSQHLLWKG/YSF/ PPSLMKLSLAGYEILS*KFFSLR TLNIGPPLSSGFRVSAERSTVSL MDFPLCITQCFSPAALNIFSIST LVNLTIMCLGVALLEQYLCCVL
15488	45856	A	15578	2	460	

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15489	45857	A	15579	1	2031	MATEVFLIPYALLQCSLASYP KPGIYVSPQMWVGSVTCSDQ KNTIEVLVPKAYTLARQQYKSL SEQVYSCHQGTLNTRAQESAAS LLKPARPRTRQKKETPNTSEHQ KEQTLDTPLRTVTLTTRVRGFI LEVSETKNPPISDTMGLDISKQE EVLGRESDEQGEQSQGLSEMQ TALAMLLTREPISAKQAPHEPP RRQEDNTQAREGETRSRKTRA EGQKGHAHAENERNAKERESE RKRQEAEDENGKEKQERNEG T HARHMKRRKRDEKKRQGQNK PGNKRPEGNEEAQRRRKKNRE RQRF SFYQSGPSAAGLLVFAGG PLQSLFAWVSPLEAAEQQRFLS VPSSGPLRKFLYFGFVGNATP LRGLNTHGRLLTPAHGTRRRHT RPLNSPVPEKAGSTTESNGSPY GQNPGLPPKGNRAQGEKWM GRRIQGTTRPRAREANHKKMT QIMFETNTPAVYMAIQAMLSL YTYGCTTGIVMDSSDGVTHTV P IYEGYALPRAILCLDVAGRDLT NYLMKILTEHSYSFTTMAEREI VCDIKEKLYYVTLDFEQEMAT AASSSSLEKSYELSDGQVITIGN ELSCCPEALFQPSFLSMESCDIH KTTFNSIMKCDMDIRKDLYTNT VLFGGNNMYPGIANRVQKIVTL VWMGSSILALLSTFQQMWVSK\
15490	45858	A	15580	485	886	VPYFHFTCSHSSASQLPFLQMM KIAKTCSLGLNRLPEAKLKAFP TPRVTSWPRQRGRPRR/GCGR NRSGSLVSAARGVGGRSQAAA ARRDAPSPPATSRMPPRQGSVS WGCARNAPGRRADPEVRRQPG PSCT
15491	45859	A	15581	1	435	
15492	45860	A	15582	2	339	HRCSTGAFSTAASNSNADRPPP ARRRGLPR/RGPP/SRRRSRPPR REPWPRTTRPRTRTAKARRRAT LEGRCCRACGHWQPRAAAAA AAAAAAVAAAAAAAAAAAAAA GASATW

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15493	45861	A	15583	1067	2093	RRNTSSKCRSRNCRCPRSPHRH RPSLRPRSQQPKCKCRPSRRSS RAPSSRRSRPQGLVPC*RAPPW PTSRWPGSPGFLLNCSRKGRC RPRHPSQPRCPCRSRLWCPSRQ LWSPHRESPPCP*TSRGS AWRS VSHRRQQDRPWWTQPVHMQQ LLKLKQQA VQQQKAIQPQAAQ GPAAVQQKITAQQITTPGAQQK VAYAAQRALKNPVSYHHTLPG PETGRGPASADPDGCKTSSSCS TANTRGQHPASCLCFPAGFSTD CGAHAGDGGRAAGADDPCSDR DCPGGSAETHSAAGGDHGVGP APDSRRSQSPGARQLRQPKPA AQVTDEGPCCQAKDTY
15494	45862	A	15584	10	607	RALCGESRLPLARKLS*AKKSV QRSTLQSRRIWVCWFHFAN*SL F*KQGRT*ESPL*L*LIPAS*RPS TSESPPL*KANFQQPHRGL*EKV AEGRRGP**EY\YTSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SNNSSNSRHHRRRRRRRLLSFLSR RRRHSRCCLSRSPRRRPRRHP ARLWLSRCTDQRKNFQLPRK TV
15495	45863	A	15585	217	1012	AKNDSKRQNFHGRGQPTFGAD KAKGERVRTSSTIRTSYLDIT GPYLTGQWPRDPHGHYPSCMK DKATQTP\SCWAEEGA EK RSHQ RSA\SWGSADQLKEETPTDLQQ NAQQKLYKPEEVGCLISDFLKE KENCQPRILYAGKLSSECTPDE EAVNIVEMITKDLEY YINLVDK EWQGLRGLTPILKEVLRVKCY QTASHATKKS GMKGKVSQFGK LHCYFKKLPLPLPSATAILISQ LTSTRQELHHKKDCNLLKTQMI
15496	45864	A	15586	2	387	
15497	45865	A	15587	1	165	LFMFFCLLYIR*QLLHPGYNA PF QNTAATRGRGIAQTAPEAA FQL FLHQRVRFHC
15498	45866	A	15588	172	359	PDGDGIESINYL GQYGHFHDIDS SYP*AWNVL PFCILFYFIEQWF IVLLEEVFHIPCKLDS
15499	45867	B	15589	1	2850	
15500	45868	C	15590	1	2835	
15501	45869	C	15591	78	491	

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15502	45870	A	15592	1	5721	MAVLSLPLAPPTLMPPAHFNLV EMQVKATLKEYWQRKSPGIPA GANRKKKINGSSPDATSGGYH SPGDSATGIYGEHASSATLED LELRQPTPSTSPNDCSLYPSPQS SSNSSSLHAPHSQYRELAVALH SSSAIISQLSENINSLNNENKSAL QLERQVKELKLGELKETVTS DP SNNGWEAVTSLWEGERLPARG AEEPRGSESTAAARPVPVSPAA VRGRLVAGEPGSYQPAETA AK AQLSLMALPGEGY
15503	45871	C	15593	178	1287	
15504	45872	B	15594	52	855	
15505	45873	C	15595	1	1698	
15506	45874	A	15596	302	617	NLAVNPSGPGLFLIGKLLIIASIS EHVIGLFRDSTSSWFS LGRVYV SRNLSVSSRFSLVFDDGDVQMG FWCGCPLCLLVFLLTAGPSAA GLLEFAGGPLQTLFA
15507	45875	A	15597	1	2762	MYGTGYRDVAGKWAIDPDSK REFLDVTQEGIQGCDFSGTCRQ TLSILTQPLRQWGLEGIKKPNS WIIEESVSNGGPPLIPRQTAS GVDLQQTPTDLQLRVLTVRRK TNKQKGIASSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIW DYVKRPDLRLIGVPD SDGENGTRLENTLQDI
15508	45876	B	15598	1	1989	
15509	45877	B	15599	1	762	
15510	45878	A	15600	686	850	GQPERKVGLPTKGSPSD*QRISR QKLYKPKESGGQYSTFLKKRIF NPEFHIQPN
15511	45879	A	15601	2	382	
15512	45880	A	15602	1	993	
15513	45881	A	15603	3	460	SPCWGQLLQATQP/ATAFAQKD LLVGAVLFGHNGSLSSRNTLAF SMDVGPSQWMWGLLNGCGAS AHRQCTRCTLQVTIALEGPLAP LKLA WHKKIYIFLGEAAEIRRD QLEAERELFHSRAEQGR LFVGR PGQAAHMLPPGDCVSIWTQH MIT
15514	45882	A	15604	1	130	
15515	45883	B	15605	1	561	



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15516	45884	A	15606	94	420	EKAVGRWIFQSKRYRSPCEKPY SKGLQVQRTVPEGPSKAARAA QAPGPNLLPCLPT/PQTPEFIISEP LANMYSCGNQNTLMEELAEQA QQHDEMLHMHHALKEALSIIS
15517	45885	B	15607	46	747	
15518	45886	A	15608	186	364	AFAPAPCTLVPGVLRGPPILLRE TGLAH*CPAVISPPKSLPWLPTA YSVESQQVILFGL
15519	45887	A	15609	155	511	GAAVAGTQNLCLGGGGAVGG S*RGALNGEGLLHPGYNAPFQN TAATRDRGIAQTAPEAAQFLFL HQRVRFHC*FLLWREGRGR*AR REPLSRPQPPAGPLGGALPAPPL PDASTLVGVG
15520	45888	A	15610	1352	1684	MSIRSAWCRAEFNSWISLLTFC LVDLSLVFDDGDIQMGFWCGC PFCLLVLLTAGPSAAGLLEFA GGPLQTLFAWASAVVAEEQOI LVSSKCCCLIVPLEVLSQRSTWP
15521	45889	A	15611	98	367	
15522	45890	A	15612	426	738	VCVWGDPPGPAGGHGEAAATL WKEKVDLKERVEKLELQFIHLS GQTDITGRKYISQGAVSETQHW ERRTSSGWP\GPGGDEGEPAGA AGQVLQLVGDHKEGHGKF
15523	45891	B	15613	86	1411	
15524	45892	A	15614	950	1493	GTVFLWRRRGTLIFRVSGFSAL FFPPSLWFYLPFVDDGDLQME FWYELSFLMLLLFLCACWFSF *QSGPSAAGLLEFAGGPLQTLF AWVSAVAEEQWILVNRKCCC LIVPLEVLSQRSTRPCEVSVHPY VHCCLGIEELNIYCSLHSLGLFE AILLGKAFEELGCCDPSLFATV
15525	45893	A	15615	1	5731	MDSHRPTAWPAAVLAGRSPVA AESERYCSRQPPLPRRQALLSV LVLASDTRLPPFWSSQTFCGILS KPLVLSGPLQTQGETNNENGLV GGGEVGMQPLVLFERSLFPGRG CVLERRIVPWMRQESYSSSPI WVDSDELNLTSVLECLEDDK NNNLLHQQLKWLICGLCRLYN LPKHLDVAMPDQPLPMGQSGP SAAGLLEFTGGPLQTLFAWVSA ALAAEKQILVNCKCCCLIVPLE VLSQRSTWQYELKEYW
15526	45894	A	15616	2	521	

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15527	45895	A	15617	1	1261	MSEHNITEECQQENQSIEQWRSI AHSDSIEVSWLHEVIKTYLKAK STKLDLMKKLKELSSQPSRKPK PFIPSQEGTGDNDVIYSTERLSK LLNQKKGSTRLYDKPLSNLLNQ KKVSTRTEGLTVDSRADMRNV TTILLSTESSSTDSSSSMDSSSSM DSSSSIGRVETATCAMIPVQKSK RSGPPQGPSAATGDGAEGRFLP RCSRPWADRLAWSQPRRHLAP GPSAATGDGAEGRFPLCSCCG TDRLAWPQPQGHALLPRCGE CGRARELPGDCCLHAEGGCSSV LEVLARAIRQKKEIEEIQIGKQE VKLSLVADDIIFCLENATDSSRN LLELIKEFSKVSRYKINGHKSVA LPYINSYQAENHIKNSTPFTIAA TNNNNKK\KNLGIYLAKESKDS YNENYKTATERNHRWSQAR
15528	45896	B	15618	60	499	
15529	45897	A	15619	134	1416	RTSICWTMDSSVQNTVLGPTRS SVKGVMEWLQYLMERR/CTL SISMESMPRVAEDAGDVGAEE PLHLEPPAGPLEVEQQLQAEIK HLRKTLESLAGQLQAQVEANE GSSHLNRQQDERLREWKAEW EEQGETGRSSVQKDRTTISHAL SQNHQLEEQLAKEERLEATSQQ NQQLQSQMSLMALPGEDELG SKEEEEAPQPMPSILEDLKSREA MVAFLNSALVSAEEEQQAQLH GQLKEQRVCCQH LAHPVALAQ KEPEAAAPTPTGGDSAVWTV DLQVEKTKFIMFTIKPGEVVNK DMAQSIYRSGKNLDKDMYGH DLEARRKTNRPLETTFYFLSYE LDYSRCFIGCLKCLCLPSPSATI GSFLKPSQKQKPVCLLYSLQNH EPIKPLFFINYPDSDSYRHTQVIR ILLSGSIHVQVPATKTPL

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15530	45898	A	15620	1	1665	MGGHVGGRHRMLTPKLIPEL AAGSMKINPEEPNRPPINGAPG GPALPLAAGDSGSEQAGEPALA ASELQGWSTLGSPLRGTGI VATRSRGRFRLSPASLGRRSR DRKTKELAFAGSGLATRGQRA SSDAAAGPPLSRCSPARTPQLPV RGS LTGPAPAPPRARVCLLSC SCRQFPPLTGGLNVGRPSGPS WKICPRSLPSASAETGIRRRRAA AHPPLQQPPLCGESLPSVQCSA NADSSIPVPSRWSQDACRNTGA AGPPGYACVNNRNRTDKNSQ LDETHMKTKVTDRGGFGAFT MLLRVVDTGHTSCSGSVEWDP RLYGDQADLSRSHLDRPGAH HDYYTAIKKCEEGKSLDTTVK VKAGVNGFGRIEHLVTKPAFNS GKVDIVTINDPFVDLNNMVYM FQYDSTHGKFCGTVKAENRKL VASGNPITVFQ/ERDPSKIKWYI AESTCIFTMEKAGADLQGGGA KRVII SAPSADAPMFVMDVNHE KYDNSLKIVSNASCITNCLAPL ANVIHNF GIVEGPMTTVHAITA TQKIVDGPSGKLA
15531	45899	A	15621	2	1105	GRVGCSTVSRIFSCVASRATSLR TPMGKVKVGVNGFGRIGRLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGTVK AENGKLVINGNPIT\FQER\YPS KIKWGDAGA EYFVESTGVFTT MEKAGAH\QGGAKRVII SAPS ADAPMFVMGVNHEKYDNSLKI IS\NASCITNCLT\PLAKVIHDF GIVEGLMTTVHAITATQKT\LD GPSGKLWRDGRGAF\QNNIPAS TGA AKAVGKVIP*AERGKLTG\ MAFRVPTANVS\VVDLTCRLEK PAKYDDIKK\VVKQGVGGPPQG AILGYTEH\QV\SSDCNSGPPV FPPFDAG\AGIALNDHFVKLISW YDNEFGYSNRVVDLMAHMAS
15532	45900	A	15622	121	221	
15533	45901	A	15623	189	538	

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15534	45902	A	15624	3	1015	DRAGPPGAPRLGQQLLCAIILL GLAAKKKEINITIHKQLLKKFLN KKPSYGLERQMETTQNLVDSY MAIVNKTVDLMVGVMPKTI MHVMINNTKEFIFSELLSNLYS RGDQKTLMEESAQAQWRDE MLRMYHVLKEALGIIGDINTTTI STPWGPVDNSWLQVQSVLARR R/SPGLAPTAPSLPTPHRLSLGA LGTGSVPTLLHHPGSSSVSSLG LVA/DCFGLPKARGGPGQRLPF PSLPGRLFCDLAVAPPAPKAAAP FICDFVYCCDQASEPVGCGQQT APHRLHGSPLGIPQAPPSIQA WLRAAVFWKGALCPRCGRHIQ EFLHRCCTLVSL
15535	45903	A	15625	547	1242	PKALIKTSNKSSLSYQLTTHSGT MACPWIRHEVLLSRLGFLVLEN TNMDKRPSKLLRWLERQMETT QNLVDSYMAIVNKTVDLMV GVMPKTI MHVMINNTKEFIFSE LLSNLYSRGDQKTLMEESAQA AQWRDEMLRMYHVLKEALGII GNINTTTISTPWGPVDNSCLQV QSVLAGCSFIILVQAVFLLYQA WWLLFWAPQGERWPWTSGLE DTVTREEGSPKGLSISL
15536	45904	A	15626	108	308	AQKHHLT*LSFLPRH*ILT*NLT KIPTSKIKKTPRSRSPRRSTSCFL DNLAPSCGCSGKGSSWRIC
15537	45905	A	15627	687	1910	KDHQLRKKLRRRGKQGAFTAA LPPGSPRPPLRGGRSGGVGLGV RGQRTPOAPQAVTPSEGPEPLW GPVLGGGGEHRRGTGASAAAG ASMRLGAAGGGAGAGPQRG VGARVVVSEEANSPGAAITSNR ETQDANEGLSAPRPECLLHPTC RLLYVPLIVRDWVCHTRSIVLL QVVNVTGIAVGTGLASAYDTL MSQSFGVKNLKRVGIIQRGVL ILMLCCFPCWADLVNTERILL LKQDPKSPGWTRCFQEWGSYI HLVIPSFMVCTEQWTFEIGNF LAGLIDVMELGTQGIICELASV AYMNYFRLNPQPPISDFTINLAF LTLTERKILGYIQLRKGPDIVGP YGLLQPFTDAVK\FTKEPLWPS TSTITLYIIAPTLALSIVLLALPT RMLAATPRPRGT
15538	45906	A	15628	1	1173	
15539	45907	A	15629	3	1447	

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15540	45908	A	15630	1	215	MDPKQEEIPDSPEKEFRYRIAE WIRIHQPIICCLQETHLTHKDSH KLKV/KGWNKAFHANGHQKSA ARETK
15541	45909	A	15631	1	1524	
15542	45910	A	15632	1	575	MALERSQPDHVSHDRIYVK HPEYANLYRQKVDYTLPRVSIS IHVGQAGVQIGNARWELCYCLE LAIQPDGQMPSDKTIGGGDDSF NMFFSEIGAGKHVPRAVFVDLE PTVVDRCLGHWMAAFLGEEV HTGTYRQLFHPEQLISGKEDAA NNYSRGHYTIGK/EDLVLDRIH KLLTSQCRKPKATMWLSQAT
15543	45911	A	15633	208	465	
15544	45912	A	15634	107	827	EARRPCTLHLRSALHPATMCEL YSKRDTLGLRKKHIGPSCKVFF ASDPKIVRAQRQYMFDENGEQ YLDGINNVAHVGHCHP\EVVKA ALKQMELLNTNSRFLHDNIVEY AKRLSATLPGETLCLLFYKFRG YWPSTNPSSRPAAPASPPAAE RAGDFRAGRKPSVPGSRVSOGS PRGPCSRLSLSTFCTRYCPLSAL TSGPGCPYPMCFLLSPRVSRLLY SSHMVAGCRALRRCKNSH
15545	45913	A	15635	3	1218	GGLWEKMAAAA\QSRVVRYLS MSRSAITA\IATSVCHGPPCRQL HHALMPHGKGGRSSVSGIVAT VFGATGFLG\RYVVNHLGTAW GSQ\VIIPYRV*IKY*QSMHLSFP WG*PGGQLSVFLGNWGTARD* RFLFRRVSYNTGNVGSSILFGTR LGETKNF\DFWRDVFVKIPQAIA \QLSKGSWEFEKFISCFHIWNGG II*KALS*DI*GNKAVGEKVVRD AFP\EAIIKPSDIFGREDRF\LNS F\ASMHRFG\PIPLG\SLGWKTV KQPVYVVDVSKGIVNAVKDPD ANGKSFAFVGPSRYL\LFHLVK YIFAVAHRLFLPFPLPLFAYRW VARVFEISPFEPWITRDKVERM HITDMKPLPHLPGLDLGIQATP LELKAIEVLRHRRTYRWLSAEI EDVKPAKTVNI

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15546	45914	A	15636	2	799	GLWEKMAAAAQSRVVRV\LS\MSRSAITAIATSVCHGPPCRQLHHA LMPHG\KGGRSSVSGIVATGFGA\TGFLRRYV\NH\LRMG SQVIIPYRCDKYDIMHL\RPMD LGQLLFLEWDARDKDSIRRVV QHSNVVIN\IGTRP/WKSKNSD YEDVFVKIPQAI\AQLSK\EAGV EKFIHV\SHLNANIKSSSRYLRN KNRKREKEEMKKDLLSKKEPE PEDLENSQLIHI\AKNEKACFEEN TKSVAEQPFDEEIVDATHQLTS YLGRSQE
15547	45915	A	15637	560	1394	RKSSSVHNAASGLLGSRAPGAH RHLGRCRCRHLVSPSPAMAE DLSAATSYTEDDFYCPVCQEV LKTPVRTTACQHVF\CRKCFLTA MRESGAHCPLCRGNVTRRERA CPERALDLENIMR\KFSGSCRCC AK\QIKFYMRHHYK\SCCKYQ DEYGVSSH\PNFQISQDSVGNRIE NNTGIKQIPGAPAFGDGRV\GCR QRNAKTELLAAAGESPCTMSL GSGPNLGSPRSKSSSVTSPQPC FTEHPRERFVSFPVHYVLEGS R MSFLLWSLKTDRIFGH
15548	45916	A	15638	1	1026	MKVVCKEVKFEKQCPEAVLLH WEQTDDDENKRCDLREPRKPE THTKGPGLLVPTTQPRNEGQS GADGKHARCSKTSCCLSGKEPS FIITEHCPLVPVQNTTIKPD SGIR ILQTLDSRETFTMSTALDVLQM KEEDVLKFLAAGTHLGGTDLD FRMEQHICKRKSSGGIYI\NLKRS WEKLLLVAPAIVA\IENPADVSV ISSSSTGQRAMLKCAAA\TGATP IAGHFTPGTFTNQIQATFPNPRV LVVTD CRTGHQPLAEASYV\NN LPTIALCHTDSPLHHVDIAIPCN R/KAHSVDLMWMLAREILPM\R GTIARKHWE\DP EEIEKEEQ AADKALTKEEFQGE
15549	45917	A	15639	20	441	TAEIAIPCNNKGAHSVG*MWR MLAREDLRMRGTISGEHPWEV MPDLYFYRDTEEIEKEEQAAAD KAVTKEEFQGEWTAPAPEFTAT QPEAADWSEGVQVPSVPIQQFP TEDWSAQPATEDWSAAPTQA TEWVGATTDWS
15550	45918	B	15640	88	531	
15551	45919	A	15641	1	1302	

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15552	45920	A	15642	150	957	KAGASCCGSANPYVSVGKSCV LLAMAQLQTRFYTDNKKYAVD DVPLSIPAASEIADLSNIINKLLK DKNEFHKKHVEFDFLIKGQFLRM PLDRHMEMENISSEEVVEIEYV EKYTAPQARSNAWFHDDWISSI KRGRG\RILTGSYDKTSRIWSLE GKSIMTIVGHTDVVKDVAWVK KDSLSCLLLSASMDQTILLWEW NVERNKVKALHCCKGHAGSV NSIAVDGSGTKYFGLRIEPPKA VSLVEEINSLSYRWTADNYKV GSGGKEED
15553	45921	A	15643	3	393	VFCCPHCSLTFSKSFSSFSRLVR HQQTHWKQKSYLCPICDLFGE KEGLMD/HLEGL*RQGPQSSH HKCRVILGQWLGFSDVPTMA GEEWKHGGDQSPPRIHTPRRRG LREKACKGDKTKEAVSILKHK
15554	45922	A	15644	335	537	VYFKQVTLDSSCRL*ERQVKST SSWNILSSTWRLPFCPTSVVLR LTWICLRTISTSSISWFPADSS
15555	45923	A	15645	153	828	

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15556	45924	A	15646	1	2002	MLESAGNQDIEDVDIVLRQIQV KNRSTTEVGQNGNLQVEVSYT QAHIAPRPLASQGTWPHFVSSA PQPCFQVQNHSKYQNLYYSGFI RETEPISKGDVGEWLSAGKGES SAMFASEQEISKDEQGTPVLGS FYWEVDSRKESSQAWAPGQE WIKLERDTTEEKMFEQLKPIEP VQKTLPWVGEVAATLQEAMK RDCWREARVKKKPVTFEDVAV NFTQEEWDCLDASQRVLYQDV MSETFKNLTSVEGKKKELREQ HPSLRDEGTSDDKVFLACRGA GQCPLSAPAGTMDRTRVLQAS QAGPP/FFATTVGKCFRRSYL YSHQFVHNPKLTNSCSQCGKLF RSPKSLSYHRRMHLGERPFCCT LCDKTYCDASGLSRHRRVHLG YRPHSCSVCGKSFRDQSELKRH QKIHQNQEPVDGNQECTLRIPG TQAEFQTPIARSQRSIQGLLDVN HAPVARSQEPIFRTEGPMANQ ASVLKNQAPVTRTQAPITGTL QDARSNSHPVKPSRLNVFCCPH CSLTFSKKSYSRHHQKAHLTEP PNYCFHCSKSFSSFSRLVRHQQ THWKQKSYLCPICDLSFGEKEG LMDHWRGYKGKDLQSSHHK CRVILGQWLGFSDVPTMAGE EWHGGDQSPPRIHTPRRRGLR EKACKGDKTKEAVSILKHK
15557	45925	A	15647	1	1048	MPSLAELFEGSSKAFGAAASQL NFPVASGEMLKFKYGLRNLPH AVAAEPIASRTSRLNLFQGKPP FMTQQQMSPLSREGILDALFVL FEESQPALMKIKHVSNFVRKY SDTIAELQELQPSAKDFEVRSLV GCGHFAEVQVVREKATGDIYA MKVMKKKALLAQEQVSFFEEE RNILSRSTSPWIPQLQYAFQDK NHLVLMMEYQPGDLSLLNR YEDQLDENLIQFYLAELILAVH SVHLMGYVHRDIKPENILVDRT GHIKLVDFGSAKMNSNKMVN AKLPIGTPDYMAPEVLTVMNG DGKGTYGLDCDWWVGVIAIY EMYGRSPFAEGTSARTFNNIM



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15558	45926	A	15648	101	220	KRQQAFGLLDLHQWFARGSQG FRLQTEGCIIGFPTFEV*RHSGFL SCQSSCTGSFSSVWADVPLMFE GAAQPV*PVPSRGSADFRPLSIC *RSSRILLVKRCENSGVR
15559	45927	A	15649	597	808	ITMKSQRQIIKKA VTTKEMKSV CRRD/TPAFMFIAALFKIAKIRIQ RLCLSTDEWIKKMWYIHTMEY YSTLK
15560	45928	B	15650	161	3156	
15561	45929	A	15651	14	270	
15562	45930	B	15652	787	1821	
15563	45931	A	15653	1	2412	MAKSKGCSAATLASTHQILVTP WSCDNQKCLQTLPNVPGGTLK LLCEDHWFRNDSCNQAIPTIAT LLSFPSLQASLWTHFLSPLNH HPVNPDSHLEQPPGQSPRLNFE AGDPERAPHALGCKRSRTRATS DRQPMASRDPGWGKASVGKA CALGSAVLPAGNDCTTDNLGL GSAGFEDLRRLGQGPPRRQGA LQAAPRKASSCAAGQRLAPDSS FSRKRPSRQRLGCETAAVADT AEAKSSEAPAFGWSTMDEAGS SASGGGFRRALDEPPNSRIFLVI SKYTPESVLRERFSPFGDIQDIW VVRDKHTKESKGIAFVKFARSS QACRAMEEMHGQCLGPNDTKP IKVRVPGSGCPRGKEWASWTS HLLLCRGEGGVEHPFPAADQT APGLGTGAALRRGSPPTKLRRV AGKGTGCGVFAPRERTRQPRPP GDRTAVAGLP/SPSPSLIHQLLSS LPNSS*PTLSTFLTFLSQMPRFP YIKNGKTL/PFPQVFIAQSRSSGS HRDVEDEELTRIFVMIPKSYTEE DLREKFKVYGDIEYCSIIKNKVT GESKGLGYVRYLKPSQAAQAIE NCDRSFRILAEPKNKASESSE QDYYSNMRQEALGHEPRVNMF PFGHGVVQYFNVASAIYAKYK LHGFQYPPGNRIGVSFIDDGSN ATEKMATQMVAACLASMVWN NPSQQQFMQFGGSSGSQLPQIQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15564	45932	A	15654	375	2059	DSSVWQTPQKQRAVRPLHSGG APWTKLAALRATRGFRPGVDS LDEPPNSRIFLVISKYTPESVLRE RFSPFGDIQDIWVVRDKHTKES KGIAFVKFARSSQACRAMEEM HGQCLGPNDTKPIKVRVPGSGC PRGKEWASWTSLHLLCRGEG GVEHPFPAADQTAPGLGTGAA LRRGSPPTKLRRVAGKGTGCG VFAPRERTRQPRPPGDR TAVAG LPLSLALTNP PALEFTAKLVLA YFEYFSDLPLSDAQISIYKKRKN STFPQVFIAQSRSSGSHRDVEDE ELTRIFVMIPKSYTEEDLREKFK VYGDIEYCSIIKNKVTGESKGL GYVRYLKPSQAAQAIENCDRSF RAILAEPKNKASESEQDYYSN MRQEALGHEPRVNMFPFGHGV VQYFNVASAIYAKYKLHGFQY PPGNRIGVSFIDDGSNATDLLIK MATQMVAQAQ/RLHQWCGITQV SNNL/WQFGSSGSQLPQIQTD VVLPSCKKKAPAETPVKERLFI VFNP HPLPLDVLEDIFCRFGNLI EVYLVSGKNVGYAKYADRISA NDAIATLHWKDSEWGET
15565	45933	A	15655	257	412	
15566	45934	A	15656	3	866	HAASPCCCYEEKQSPLQKHLRV CSLRTWSLAARVAEGTAETVD PSAAPKTSVWSSRVCWGRLLA TISPSVNETDTCGMEDRRLVVC RPWRAQCHMKAWGWRHPEEG GTHSGAPSAVLQALAVAIQLGG HLADPLLQVDPLSSCGAVSLDI LIYLVFYRTASVPETYIVKTLF KKLESQSLIQSNVLTRSNMKA ERGEEAAKEKSEASRGWFMRF KERSCLHNIKMQGEAASADVE AAASYPKDLAKITDEHGYTKQ Q\FDVYKTAFCWRVMLKKYVK LLFVLCPLP

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15567	45935	A	15657	333	1034	RLSTTVMRGAFVFMHKMPRL WLDYCQFLMDQGRVTHTRRT FDRLRALPITQHSRIWPLYLRF LRSHPLPETAVRGYRRFLKLSP ESAEYIEYLKSSDRLEAAQR LATVVNDERFVSKAGKSNYQL WHELCDLISQNPDKVQSLNVD AIIRGGLTRFTDQLGKLWCSLA DYYIRSGHFEEKIRKAPVNGGPT WMVGQNSVPRFQTRRLTPLKR KGPLVTDFREKQPTPLAQE
15568	45936	A	15658	172	346	ARPCRWCPS*TSASAPGPGLR PCPPAGDRTPASPLHNQAAA APPGPGTWRGAAAS
15569	45937	A	15659	293	482	
15570	45938	A	15660	468	791	LAKCGCLEARGRARQTSGRPRP TDGGP*SPCWETGKGHPVLGR RGS/PGKQGL*SLPQSCQGQWR CAASRLSSKNSWACMGSGREA VSQETGTSSSLGLMRPSDKKP
15571	45939	A	15661	366	609	
15572	45940	B	15662	321	739	
15573	45941	A	15663	I	1815	
15574	45942	A	15664	I	1911	
15575	45943	A	15665	437	1125	PVSCSGHSRWAAAAISIALSMIE TVNMVFTFYSRHHGTISTRVL/I GKRPERQDGGDTVNLGTLEET ASPSPVTTSPQPMLPSAFPPL SEEINPALPEATVMASPEAVAR QDNVDSAQEPPTPLCASRPTT RQKSWWGARGEVESVTHEEM HYTGKELLEFSNLYKEKSGEQA WEWILRVWDNNGGRNIQLDHPE FVDLGPLSRNSAFNVAVRGVK KGSKSFAWLGEI
15576	45944	C	15666	49	186	
15577	45945	A	15667	80	877	GAERLPEGPGKRMVFRFVEIV GRVAYVSFGPHAGKI/VSAMVD VF\DQNKGFWSNGPCTQVRIRQ A\MPFK\CMQLT\DFILKFPNSAH Q\KYVRQSLGRREDINTKLGQP TRWGQGRFESQEEKEKPRLTDF *SVF*S**RAKEN*RDRINPRNE V*EAFKRAAFPGKASSQKKAPG Y*GVLLAAAAAAAAAAAAAAAAA AAAAAAK\VPAKKITVAASKK APAKVPAQK\ATGQK\AAPAP KAQNGSKSSKPQKAPAPKASG KESISGNHKK
15578	45946	A	15668	253	1218	
15579	45947	A	15669	I	1819	

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15580	45948	A	15670	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDDEVLAAHRQEIEVAKA SPSKGNIIHFGYKGVEYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTAEK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWSRSPYFFSPKPVPP QLLGGQPAHSSRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPDMETPLQFQRGFFPEQPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLR TSSPGGAFRTRTSSPLSG SSCCCCSSRRGSQLNVSELT SSHASALRQYQAQSAQSSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHPHAPHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQPLQPPASVGGGGGASSP SAAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGGSGHGSSSGTKSSKKK NQNIGYKLGHRRALFEKRRLS
15581	45949	A	15671	1	246	SEPPHRGPTGALPSGAVRRGPL SSRPQIGRSTDLSLHCVPGKATD AQRQPVKAAGSGAVPCKATG WSCPCL*EPISCINVTIC
15582	45950	B	15672	43	741	
15583	45951	A	15673	687	1012	FHTSRPFWNISELSRFCIQKYKK PWHSVSDFYRYQFFICQGTACC PASLRM*HCPN*ILQGTSSQNCC SCSGKSCSPMQQRHRSTVCSGS GTFCVGSCESEFEGTYFSR